Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

New Hampshire—Boston & Maine R.R., Boston Mass., plans to electrify its Portsmouth & Dover branch, Portsmouth. F. B. Freeman, Boston, Mass., Ch. Engr.

New York—City Council, Buffalo, denied franchise to International Ry. to build double-track extension on Washington St. between Ohio and Perry St. and granted franchise for extension on Ohio St. from Washington to Main St. J. C. Sheldon, Buffalo, Pur. Agt. Noted Dec. 9.

Pennsylvania—R. B. Williams, Scranton, Penn., interested in construction of railway from Schenectady, N. Y., to Bloomsburg, Penn.

Virginia—Norfolk & Western Railway plans to construct second track from Walton to Ripplemead, 8.05 miles, next year. J. E. Crawford, Roanoke, Ch. Engr.

West Virginia—Surveys being made by Baltimore & Ohio R.R. for line along Big Sandy River near Beaver Creek, Ky. Company has also secured right-of-way for line on left fork of Beaver Creek into Beaver Falls. F. L. Stuart, Baltimore, Md., Ch. Engr.

West Virginia—Appalachian Power Co., Bluefield, contemplated 1 mile extension to line. Herbert Markle, Bluefield, Gen. Mgr.

North Carolina—Atarka Valley R.R. Co., Bryson City, recently incorporated, plans to build a railway from Bryson City to Falls of Atarka Creek, 12 miles. Arthur Brooks, Buckhannon, W. Va., and Leslie Brooks, Bryson City, interested.

North Carolina—Durham Traction Co. contemplates 2.6 mi. extension in Durham. R. L. Lindsay, Durham, Pur. Agt., Audr. and Gen. Mgr.

Georgia—Savannah & Atlanta Railway Co., recently incorporated with $500,000 capital stock, will build a line from St. Clair to a connection with Georgia R.R., about 35 miles, thence to Washington, Ga., 25 miles. Line will be extension of Savannah & Northwestern Ry. John H. Hunter, Henry D. Stevens and Edwin M. Frank, Savannah, Ga., interested. L. B. Ackerman, Savannah, Ch. Engr., Savannah Northwestern Ry.

Mississippi—S. M. Anderson, Greenwood, and associates plan to build a railway from Greenwood via Ittabena to Schlater, about 46 miles, and to Black Hawk.

Mississippi—According to press reports Gammill Lumber Co., Pelahatchee, plans to build standard gage railway in Pearl River Valley.

Tennessee—Nashville, Chattanooga & St. Louis Railway will enlarge yards at Hollow Rock Junction. H. McDonald, Nashville, Ch. Engr.

Tennessee—Tennessee Valley Iron and Railroad Co., Clifton, plans to extend its line from Collinwood to Savannah, Tenn., providing county will vote bonds to pay part of cost.

Ohio—Baltimore & Ohio Railroad Co. plans an expenditure of $1,240,000 for double-tracking its line between Midland City and Cincinnati, and for second track and track elevation through Defiance. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ohio—Mt. Vernon Railway Co. contemplates 2-mile extension to line in Mt. Vernon. Charles Weirick, Columbus, Supt.

Ohio—Northern Ohio Traction and Light Co. plans 0.7-mile extension of line in Akron and 9.4 miles of double-track line from Akron to Cleveland for cutoffs. Charles Currie, Akron, Vice-Pres. and Gen. Mgr.

Ohio—Wheeling & Lake Erie R.R. will soon award contract for three-mile spur to circle east boundaries of Canton. Estimated cost between $200,000 and $250,000. W. L. Rohback, Cleveland, Ch. Engr. Noted Nov. 18.

Indiana—Chicago, Lake Shore & South Bend Railway Co., Michigan City, contemplates four-mile loop in south and southwest sections of Gary. R. Antibus, Michigan City, Ch. Engr.

Michigan—Robert Oakman, Detroit, received franchise for electric railway between Hamilton Blvd. and Grand River Ave., old city limits and Highland Park.

Minnesota—Minnesota-Northwestern Electric Ry., Thief River Falls, plans to build 20 mi. of new line. H. W. Protzeller, Thief River Falls, Secy. and Gen. Mgr.

Kansas—Manhattan City & Interurban Ry. contemplates 1-mile extension to line in Manhattan City. T. B. Waller, Manhattan City, Ch. Engr.

Montana—Commercial Club of Ft. Benton appointed committee to make investigations on construction of railway, about 1 mile. L. D. Sharpe, C. O. Vowell and C. W. Hudson, interested.

Illinois—Illinois Traction System contemplates railway between Jefferson City and Columbia, Ill. H. J. Vance, Peoria, Pur. Agt.

Arkansas—Yellville, Rush & Mineral Belt Railway Co., Yellville, recently incorporated with $140,000 capital stock, plans to build railway from Yellville southeast along Mill Creek to Cowan Barrens, Clabber Creek and Buffalo River to mouth of Panther Creek. J. C. Shepherd, Rush, Pres.

Texas—Corpus Christi Railway and Light Co. contemplates 1-mile extension to line in Corpus Christi.

Texas—Houston, Richmond & Western Traction Co. plans branch line from Seguin to New Braunfels. E. Kennedy, Pres.

Texas—Northern Texas Traction Co. received franchise from Board of Commissioners, Dallas, for extension of line on Jefferson St. from Pak Cliff Viaduct to Commerce St. C. F. Hollerder, Dallas, Pur. Agt. Noted Sept. 30.

Texas—Plans being considered by Pecos Valley Railroad Association for gasoline-electric interurban railway from connection with Kansas City, Mexico & Orient Ry. of Texas, northwest via Buena Vista, 35 miles up Pecos Valley.

Oklahoma—Surveys will be made for interurban railway from Bartlesville to Pawhuska. Illuminating Oil Co., Bartlesville, interested.

Idaho—Pocatello Traction and Interurban Co., recently incorporated with $100,000 capital stock, will construct a railway about seven miles long. Richard Douglas, Pres. Noted Dec. 16.

Utah—Ogden, Logan & Idaho Railway Co. plans to build new line from Ogden to Harrisville and from Hot Springs to Brigham City, 22 mi.

Washington—A. Van Eppes, Leavenworth, interested in railway from Leavenworth to Icicle, 25 miles.

California—Surveys made by Engels Copper Co., Taylorsville, for narrow gage railway from its mine to connect with Western Pacific Railway near Keddie, seven miles. Noted Oct. 21.

California—Fresno Interurban R.R. Co. plans to build railway from Fresno to Clovis and from Fresno to Centerville during 1916, about 18½ mi.

California—Press reports state that Santa Fé System contemplates line from Needles, Calif., to Oatman, Ariz. F. W. Felt, Chicago, Ill., Ch. Engr., Atchison, Topeka & Santa Fé System.

New Brunswick—Moncton Tramways, Electricity and Gas Co., Moncton, plans to build about 1½ miles of track next year. E. B. Keeser, Farmers Bldg., Pittsburgh, Penn., Vice-Pres. and Gen. Mgr.

New Brunswick—Bids will be received until noon, Dec. 30, by I. R. Todd, Pres., St John & Quebec Railway Co., Fredericton, N. B., to complete portion of railway (Canadian Government Rys.), between Georgetown and Centerville. C. B. Brown, Moncton, N. B., Ch. Engr. Noted Dec. 2.

Ontario—Press reports state that government received application from firm of lawyers of Ft. William for charter for railway to be known as Manitoba & Ontario Ry., to be built between Ft. William and Lake of the Woods, Man.

British Columbia—Surveys being made by Canadian Northern Railway System for line from Kamloops southeast via Vernon and Kelowna to Lumby, 141 miles, also on Island of Vancouver from Alberni to Nootka Sound, 15.6 miles. F. W. Vancouver, B. C., Gen. Supt.

Bids In and Contracts Awarded

California—Board of Public Works, San Francisco, awarded contract for extension of Church St. line from 18th to 22d St. to CONTRA COSTA CONSTRUCTION CO., at $120,500. M. M. O'Shaughnessy, City Engr. Noted Nov. 18.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Brandon—Hortonia Power Co. will issue $500,000 bonds. Proceeds will be used for developing Silver Lake water-power project.

Vt., Hardwick—City plans to extend lighting service to East Hardwick, Greensboro, Greensboro Bend and Craftsbury. Estimated cost, $11,626.

Mass., Newburyport—Newburyport Gas and Electric Co. will build plant on Water St. at Merrimac River. Estimated cost, $200,000.

Conn., Winsted—Plans being prepared for hydro-electric power plant for Winsted Gas and Electric Co. Estimated cost, $100,000.

N. Y., Batavia—Chester & Fleming, Engr., Union Bank Bldg., Pittsburgh, Penn., retained by city to prepare plans for electric-light plant and water and sewer systems. Citizens recently voted $175,000 bonds for this purpose.

N. Y., Cobleskill—Courter Electric Co. will build high-tension transmission line from Ft. Plain to Cobleskill through towns of Milton, Canajoharie and Sharon.

N. Y., New York—(Borough of Richmond)—Richmond Light and Railroad Co., New Brighton, applied to Public Service Commission for permission to enlarge and improve its plant.

Penn., Ellwood City—Mahoning & Shenango Railway and Light Co., Youngstown, Ohio, has purchased plant of Pennsylvania Power Co., Ellwood City, and will improve same, work to include construction of dam. Estimated cost, $150,000. Noted Dec. 16.

Penn., Monroeton—Press reports state movement is on foot to organize company to build electric-light plant in Monroeton.

Penn., Philadelphia—Philadelphia Electric Co. considering proposition to build large electric-power plant in northeastern section of city.

Fla., Ft. Pierce—See item under "Water-Works."

Fla., Jacksonville—Eagle Film Manufacturing and Producing Co. will build electric-light plant. A. S. Roe, Pres.

Fla., Okeechobee—See item under "Sewers."

Miss., Columbus—Election will soon be held to vote on $10,000 bonds for municipal electric-light plant.

Miss., Oxford—City will issue $6,500 bonds for improving electric-light plant. J. H. Lawshee, Clk.

Miss., Pass Christian—City contemplates $7,000 bond issue for improving electric-light system. X. A. Kramer, Magnolia, Engr.

Miss., Wesson—See item under "Water-Works."

La., Washington—Plans being considered for municipal electric-light plant.

Tenn., Chattanooga—Tennessee River Power Co., Chattanooga, approved plans for development of water-power of Caney Fork River, near Rock Island. Work will include dam and powerhouse having output of 40,000 hp.

Tenn., Maryville—Aluminum Co. of America plans to build power dam at Maryville in connection with new plant.

Ohio, Massillon—City engaged H. O. Swoboda, Consult. Engr., Pittsburgh, Penn., to prepare plans for electric-lighting system.

Ill., Macomb—Plans being considered for installing municipal electric-light plant in Macomb.

Ill., Olney—City Council considering installation of electric-lighting system.

Ill., Poplar Grove—(Official)—Illinois Northern Utilities Co., Dixon, will build transmission line from Capron to Poplar Grove. Noted Dec. 9.

Wis., Lowell—(Official)—Bids will be received until Jan. 1 by W. F. Pease, Engr., for electric-light plant and power station. Estimated cost, $10,000. Noted Nov. 25.

Wis., Merrill—Merrill Railway and Lighting Co. plans to build high tension transmission line from Merrill to Wausau. Plans include development of Trappe Rapids water power of Wausau Street Railway Co.

Wis., Prentice—D. Y. Parkinson, Ashland, and J. E. Feely, Fifield, will install and operate electric-light plant in Prentice.

Wis., Wauwatosa—County Board of Control revived project to build central heating and lighting plant in Wauwatosa. Estimated cost, $355,000. O. Broecker, Secy.

Iowa, Cumberland—City contemplates municipal electric-light plant.

Minn., Carver—Minnesota General Electric Co., Minneapolis, will install electric-lighting system in Carver.

Minn., Rochester—Press reports state that Commercial Club plans to purchase holdings of Zumbro Power Co. at Zumbro Falls for city and to develop same to generate electricity for Rochester and other cities. Estimated cost of project about $979,000.

Kan., Arkansas City—Citizens voted $14,000 bonds for gas distribution plant and pipe line to field southwest of city. Noted Nov. 25

Kan., Dwight—R. B. Fegan Co., Junction City, will install electric-light and power system in Dwight.

Kan., Eskridge—Citizens contemplate municipal electric-light plant.

Kan., Sharon Springs—City will issue $10,000 bonds for electric-lighting system.

Mont., Scobey—Plans being considered by Scobey Electric Light Co. for improving and enlarging its plant.

Mo., Flat River—City contemplates installing electric-light plant and water-works.

Mo., Memphis—City contemplates municipal electric-light plant. E. McDaniel, Clk.

Mo., St. Louis—Laclede Gas Light Co. applied to city for franchise to place high-tension electric wires in underground conduits for two miles and to extend electrical service in western and northern sections of city.

Mo., Shamrock—Power house will be constructed by Sapulpa & Oil Fields R.R. S. W. Barnes, Kansas City, Supt.

Tex., Sherman—Texas Traction Co. will rebuild substation recently destroyed by fire.

Okla., Welch—See item under "Water-Works."

Colo., De Beque—Riffle-De Beque Oil and Gas Co. will build heating plant. Estimated cost, $7,000.

Colo., Golden—N. W. Osborne, John Reynolds and John Wallace appointed as committee to make investigations and submit report for installing electric-light plant in Golden.

N. M., Roswell—Roswell Gas and Electric Co. plans to improve its plant. Estimated cost, $20,000.

Idaho Falls, Idaho—J. A. Jones and E. G. Kindred contemplate installation of gas plant at Idaho Falls.

Wash., Seattle—City contemplates election in March to vote on $3,000,000 bonds for additional power plant, if present plans are agreed upon.

Calif., San Francisco—State Railroad Commissioners received application from Pacific Gas and Electric Co. for permission to issue $2,500,000 capital stock for enlarging and improving its plant.

Ont., Harriston—Bylaw passed by Council authorizing raising of $4,000 for hydro-electric power plant. Noted Aug. 5.

Bids In and Contracts Awarded

Mass., Worcester—E. J. CROSS CO. awarded contract for addition to plant of Worcester Electric Light Co. Estimated cost, $10,000.

Penn., Coatesville—Contract for one-story, 43x170-ft. boiler house for Worth Bros. Co. awarded to IRWIN & LEIGHTON, 126 North 12th St., Philadelphia.

Ga., Davisboro—(Official)—Contract for electric-light plant awarded to FAIRBANKS, MORSE & CO., at $5,000. Noted Dec. 9.

Wis., Milwaukee—Contract for steel work on boiler house for A. C. Smith awarded to MILWAUKEE BRIDGE CO., Milwaukee. Estimated cost of house, $40,000.

Mo., New Madrid—Contract for addition to electric-light plant awarded to FAIRBANKS-MORSE CO., St. Louis, at $15,065. Noted Nov. 18.

BRIDGES

Proposed Work

N. J., Jersey City—Central R.R. of New Jersey applied to City Commission for permission to build viaduct over Phillips St.

Penn., Beaver—(Official)—Bids will be received until noon, Dec. 28, by County Controller, for bridge over Sewickley Creek. J. G. Chalfont, Pittsburgh, County Engr.

Penn., Harrisburg—City will build bridge across tracks of Pennsylvania R.R. at Walnut St. Estimated cost, $300,000.

W. Va., Huntington—Huntington-Chesapeake Bridge Co. granted franchise by City Commission to build bridge across Ohio River from Huntington to Chesapeake, Ohio. J. C. Miller, interested. Noted Oct. 28.

N. C., Pineola—County Highway Commission, Newland, will soon award steel contract for bridge across Linville River. G. Love, Engr.

Fla., Bradentown—Election will be held Jan. 18 in Manatee County, Special Road and Bridge District, Precinct No. 10, to vote on $75,000 bonds for bridges, culverts and roads. M. G. Rushton, Chn. of County Comrs.

Miss., Mendenhall—Contract will be awarded by Supervisors of Simpson County about Jan. 3 for steel bridge across Sanders Creek, near Braxton, and one across Limestone Creek, near Harrisville.

Ohio, Dayton—City has had plans prepared for bridge at Fifth St.

Ohio, Willoughby—According to press reports plans being considered for bridge across Chagrin River. Estimated cost, $100,000. J. P. Curtiss, interested.

Ind., Washington—Bids will be received by County Auditor until 2 p.m., Dec. 30, for steel bridge.

Ill., Rockford—(Official)—Bids will be received by H. J. Gallagher, Chn. of Street and Alley Com., until 1:30 p.m., Jan. 26, for reinforced-concrete bridge over Rock River at Morgan St. Estimated cost, $83,000. (See adv.)

Wis., Green Bay—Bids will soon be received for bridge across Duck Creek. Estimated cost, $12,000.

Wis., Milwaukee—Milwaukee County Circuit Court has decided that Chicago, Milwaukee & St. Paul Ry. must rebuild Grand Ave. viaduct. Estimated cost, $60,000.

Iowa, Iowa City—H. Hughes, City Engr., has recommended concrete bridge across Iowa River and one across Ralston Creek to City Council. Estimated cost, $75,000 and $15,000 respectively.

Iowa, Knoxville—Bids will be received by J. D. Schlotterbach, County Audr., until 1:15 p.m., Jan. 18, for constructing bridges and culverts.

Minn., Amboy—Concrete arch bridge will be constructed over Blue Earth River by county. C. L. Kennedy, Mankato, County Audr.

Minn., Colerain—Duluth, Missabe & Northern Ry. plans to build several steel bridges. H. L. Dresser, Duluth, Ch. Engr.

Minn., Mankato—Bridge will be built across Minnesota River at Main St. D. D. Price, Lincoln, Neb., Engr.

Minn., Wadena—Bids will be received by County Auditor until Jan. 4 for State Bridge No. 1739 across Wing River.

Kan., Hutchinson—Plans will soon be prepared by G. L. McLane, City Engr., for two reinforced-concrete bridges over Cow Creek at Plum St. and Avenue F. Estimated cost, $6,000 each.

Neb., Omaha—Bids will be received until noon, Dec. 31, by Commissioners of Douglas County, for constructing and repairing bridges during 1916.

Ark., Texarkana—Plans prepared by Harrington, Howard & Ash, Consult. Engr., Kansas City, Mo., for bridge across Red River. Noted Nov. 25.

Tex., Ft. Worth—Commissioners of Tarrant County plan to rebuild Park St. bridge, recently destroyed by flood. Estimated cost, $7,500.

Colo., Denver—All bids recently received for bridge across Huerfano River north of Walsenburg rejected. New bids will be received. Estimated cost, $13,000. Noted Oct. 28.

Colo., Sterling—Bids will be received by County Clerk until 1 p.m., Dec. 28, for four bridges across South Platte River.

Idaho, Sandpoint—Bids will be received by Clerk of County Commissioners until Jan. 15 for superstructure and piers of bridge over Pend d'Oreille River at Priest River. Estimated cost, $22,000. C. J. Chaffins, County Engr.

Wash., Wenatchee—Surveys made by A. Warren, County Engr., for steel bridges across Wenatchee River at end of Wenatchee Ave.

Ore., McMinnville—Press reports state that $26,430 will be expended for bridge work in 1916.

Ore., Portland—Bids will be received by A. L. Barbur, County Audr., about Dec. 29, for reinforced-concrete viaduct for extension of Union Ave. Estimated cost of viaduct, $53,000; fill, $13,000. Noted Sept. 30 and Nov. 18.

Calif., Los Angeles—Press reports state that bridge will be constructed across tracks of Pacific Electric Ry. at Western Ave. Estimated cost, $13,000.

Calif., San Francisco—State Board of Harbor Commissioners will soon award contract for 225-ft. viaduct on Market St.

Calif., Santa Barbara—A. V. Saph, Engr., University of California, Berkeley, preparing plans for bridge across Santa Ynez River. Estimated cost between $100,000 and $125,000.

Ont., Wardsville—Council of Middlesex County plans to build bridge at Wardsville. C. Talbot, County Bldg., London, County Engr.

Bids In and Contracts Awarded

N. J., Atlantic City—Contract for bridge over Mullica River at Chestnut Neck near New Gretna awarded to GEORGE S. BENNETT, Mt. Vernon, N. Y. Noted Nov. 18.

Penn., Erie—(Official)—State Highway Department, Harrisburg, awarded contract for bridge near Kearsarge, Erie County, to B. W. BLYSTONE, Cambridge Springs, at $5,119. Noted Dec. 2.

Penn., Philadelphia—(Official)—Bids were received Dec. 14 for Diamond St. bridge over connecting railway as follows: Cantrell Construction Co., Philadelphia, $60,715; Keystone State Construction Co., $62,500; Bran & Stuart, $64,000. Noted Dec. 9.

Miss., Meridian—Contract for culvert on 17th Ave. between Fourth and Fifth St. awarded to JOHN E. WRIGHT at $11,000.

Ill., Ludlow—Contract for bridge on line of Kankakee & Urbana Traction Co., north of Ludlow, awarded to CENTRAL STATE BRIDGE CO., Indianapolis, Ind.

Ill., Watseka—(Official)—Contract for bridge in Douglas Township, Iroquois County, awarded to JOHN J. O'HERON CO., 326 West Madison St., Chicago, at $9,600. Noted Dec. 2.

Neb., David City—(Official)—Contract for bridge work during 1916 awarded to NEBRASKA CONSTRUCTION CO., Lincoln. Noted Dec. 9.

Mo., Warsaw—(Official)—All bids received Dec. 14 for bridge over Pomme de Terre River rejected. B. R. Burton, County Clk. Noted Dec. 2.

Tex., Dallas—(Official)—Commissioners of Dallas County awarded contract for bridge over Bachman Creek to KELIN BROS. CO., Dallas, at $4,500.

Tex., Llano—Contract for three low-water bridges awarded to MIDLAND BRIDGE CO., Kansas City, Mo. Citizens recently voted $24,000 bonds for bridge work.

N. M., Las Cruce—Contract for four bridges in Dona Ana County awarded to EL PASO BRIDGE AND IRON CO., El Paso, at $24,000.

Wash., Seattle—P. MASON, 2407 Boylston Ave., N., Seattle, at $5,787, awarded contract for 23d Ave. bridge. Noted Dec. 9.

Wash., Stevenson—COAST BRIDGE CO., Portland Ore., at $13,940, awarded contract for bridge near Section 37, Township 3.

Calif., Merced—Contract for bridge across San Luis Creek west of Los Banos awarded to WEST SIDE CONSTRUCTION CO., Los Banos, at $6,427.

WATER-WORKS

Proposed Work

Maine, North Anson—Citizens voted $40,000 bonds for 14-in. pipe line from Hancock Pond to end of Madison and Anson bridge.

Mass., Salem—City will construct additional water supply system. Estimated cost, $120,000. J. Clifford Entwisle, City Clk.

N. Y., Albion—State Conservation Commission approved plans for water supply system at Eagle Harbor. J. F. Witmer, Buffalo, Consult. Engr. Noted Sept. 16.

N. Y., Batavia—See item under "Light, Heat and Power."

N. Y., Cobleskill—Citizens voted to extend water mains in North Grand St. Estimated cost, $4,000.

N. Y., Rochester—City will sell $1,270,000 bonds, of which $200,000 will be used for improvements to water-works and $250,000 for sewage-disposal plant.

N. J., Branchville—Common Council plans municipal water system.

N. J., Far Hills—F. S. Tainter, Engr., 55 Wall St., New York, N. Y., retained to submit plans for municipal water works system. Estimated cost, $20,000. L. V. Ludlow, in charge. Noted Dec. 16.

N. J., Irvington—Town Commission considering installation of municipal water and electric-light plant. I. J. Casey, City Engr.

Penn., Fleetwood—(Official)—Bids will not be received until the spring for a water system. Estimated cost, $10,000. Noted Nov. 11.

Penn., Greenville—Citizens will improve water-works system.

Penn., Lancaster—City Council plans to install electrically driven centrifugal pumps in water-works plant. James W. Armstrong, Baltimore, Md., Consult. Engr.

Penn., Ringtown—Citizens voted $12,100 bonds for municipal water system. Noted Oct. 7.

Penn., Windsor—State Department of Health authorized city to construct reservoir and install water-works system.

Md., Baltimore—James H. Preston, Mayor, reported in favor of installing water meters in all buildings except two-story buildings with frontage of 12 ft. Estimated cost, $1,500,000. H. K. McKay, City Engr. Noted Dec. 16.

W. Va., Benwood—City will build well-water system, about May 1. Estimated cost, $45,000. Carl Strouts, Mayor.

W. Va., Warwood—City plans to build well-water system next spring. Estimated cost, $258,265. T. M. Haskins, Dir. of Pub. Ser., Wheeling. C. B. Coowe and C. C. Smith, Engrs.

N. C., Beaufort—City contemplates water and sewer systems.

N. C., Fayetteville—City will improve water system.

N. C., Hendersonville—Gilbert C. White, Consult. Engr., Charlotte, retained by city to investigate proposed improvement of water-works.

N. C., Lillington—City contemplates water and sewer systems.

N. C., Salisbury—See item under "Sewers."

Ga., Tifton—City plans to improve water system. Estimated cost, $21,000.

Fla., Ft. Pierce—W. R. Jackson, City Clk., will sell $25,000 bonds, Jan. 5, for improving water-works, sewers, streets and light systems.

Fla., Okeechobee—See item under "Sewers."

Miss., Wesson—Bids will be received until Jan. 4 by Paul Burt, City Clk., for water system and electric-light plant. M. L. Culley, Jackson, Miss., Engr. Noted Nov. 18.

La., Covington—Citizens will hold election Jan. 1 to vote on $71,000 bonds for municipal water-works and sewer system.

Tenn., Coster—(Knoxville post office)—Southern Ry. will build a 48,000-gal. water tank at Coster. B. Herman, Washington, D. C., Ch. Engr.

Tenn., Sharon—City voted $15,000 bonds for water-works plant.

Ohio, Athens—Contract for water system will be let early in spring. Estimated cost, $40,000. Noted Nov. 11.

Ohio, Hamilton—(Official)—Bids will not be received for three 10-in. wells and intake for water-works system. Joseph B. Myers, Dir. of Pub. Ser. Noted Dec. 9.

Ind., Orleans—Orleans Water Co., J. B. Marvin, Engr., preparing plans for water works system. Estimated cost, $50,000. C. J. Post, City Clk. Noted Dec. 16.

Mich., Hamtramck—(Official)—Detroit Water Board will lay water mains in Mitchell, McDougall and Chester Ave. by day labor. Noted Dec. 9.

Ill., Danville—Bids will be received by Board of Water Commissioners until Jan. 10 for reinforced-concrete rapid sand filter having capacity of 300,000 gal. Chester & Fleming, Pittsburgh, Penn., Engr.

Ill., Waukegan—See item under "Sewers."

Wis., Milwaukee—City Council directed F. G. Simmons, Commissioner of Public Works, to advertise for bids, for extending Linwood Ave., intake water tunnel 2,500-ft. Estimated cost, $555,000. Noted Dec. 2.

Wis., Sheboygan—Citizens will construct water works system. C. U. Boley, City Engr.

Minn., Crosby—Crosby Water and Light Co. will soon award contract for six miles of 6-, 8- and 10-in. water mains.

Minn., Duluth—Citizens contemplate construction of water system. C. S. Palmer, City Clk.

Minn., Swanville—Contract will be let early next spring for water system, for which citizens recently voted $9,000 bonds. Noted Nov. 18.

Kan., Coffeyville—Citizens will hold election Dec. 28 to vote on $20,000 bonds, to purchase water works equipment. Charles E. Stromquist, Supt. Water and Light Dept.

Kan., Tonganoxie—Citizens contemplate municipal water-works system.

S. D., Morristown—Town Board plans to install water works system next spring.

Mont., Broadview—County Commissioners rejected all bids for water system. New bids will be received. Estimated cost, $30,000. F. E. Williams, City Clk. Noted Nov. 11.

Mo., Flat River—See item under "Light, Heat and Power."

Ark., Dardenelle—H. D. Evans, Supt. of Water System, has recommended following improvements: 7,000 ft. of 6-in. and 1,720 ft. of 3- and 4-in. pipe, one 65-ft. well, reservoir with 170,000 gal. capacity, brick pumping station, oil engine and three stage pumps. Noted Nov. 4.

Tex., Ennis—Citizens will build filtration plant.

Tex., Tyler—Citizens will vote Jan. 4 on $250,000 bonds for municipal water-works plant and distributing system.

Okla., Commerce—Citizens will hold election Dec. 30, to vote on $40,000 bonds for water works system. Benham Engineering Co., Oklahoma City, will have charge of work. Charles R. Martin, City Clk. Noted Nov. 25.

Okla., Walter—Bonds for $7,500 voted by citizens for water system.

Okla., Welch—Citizens will install water-works and electric-light plant. Estimated cost, $32,000.

Okla., Wilson—At recent election citizens defeated bonds for water-works system.

N. M., Springer—J. S. Bowman is interested in installation of water system in Springer.

Ore., Baker—(Official)—Bids will be received until Jan. 3, for improving municipal water system. Estimated $110,000. L. R. Stockman, City Engr. Noted Oct. 22.

Calif., Banning—All bids recently received for water system in District No. 1 rejected. New bids will be received.

Calif., Oakland—J. S. Bragg, San Francisco, presented plan to State Water Commissioner, Sacramento, for water supply system for cities of Oakland, Berkeley, Alameda and Stockton. Estimated cost, $1,000,000.

Calif., Sacramento—City will install pump for city water-works. Estimated cost, $17,000.

Que., Aylmer—Board of Public Works considering installation of electric pumping plant. E. Mulherbe, City Clk.

B. C., North Vancouver—City will install water system east of the Seymour River. J. E. Farmer, City Clk.

Australia—Tasmania, Hobart—(Official)—Bids will be received by Mayor and Board of Aldermen until 4 p.m., Jan. 24, for about 42,000 lin.ft. of water pipe. (See adv.)

Bids In and Contracts Awarded

Conn., New Britain—Contract for borings for course of the new pipe line awarded to C. L. GRANT CO., Hartford. William H. Hall, City Engr.

N. J., Jersey City—Contract for installation of pipe line for water supply at county institutions, awarded by Board of Freeholders to CULLIGAN & MACHANSKA, Bayonne, N. J.

Ala., Cullman—Contract for extending water mains about 2 mi. will be awarded in April. Estimated cost, $12,000. A. G. Coe, City Clk. Noted Dec. 2.

Ohio, Columbus—Contract for water-softening equipment for Institution for Feeble-Minded awarded to WILLIAM GRAVER TANK WORKS, East Chicago, Ind. Noted Dec. 28.

S. D., Aberdeen—City Commissioners awarded contract for a booster pump, electric motor and Venturi meter to R. A. WHITACRE CO.

Tex., Ft. Sam Houston—Contract for water distributing system, awarded to NOLAND-CLIFFORD CO., Newport News, Va. Estimated cost, $4,970.

Utah, Salt Lake City—(Official)—Contract for constructing storage dam in Parleys Cañon awarded to PARROTT BROS., Salt Lake City. Estimated cost, $108,582. Noted Dec. 16.

SEWERS

Proposed Work

Mass., Boston—Bids will be received by Edward F. Murphy, Comr. of Pub. Wks., until noon, Dec. 24, for pipe sewers and drains in Chester St. between Rockaway and Oakland St. and between Rexford and Chester St.

Mass., Boston—Bids will be received by Edward F. Murphy, Dir. of Pub. Wks., until noon, Dec. 24, for pipe sewers and drains in Allerton and Kenberma Rd., from Park to Washington St.

Mass., Winchendon—Citizens voted $15,000 bonds for sewer system. Noted Nov. 18.

Conn., Greenwich—Bids will be received Dec. 30 for sewage-disposal plant and trunk sewers. Estimated cost, $100,000. Clyde Potts, 30 Church St., New York, N. Y., Engr.

N. Y., Batavia—See item under "Light, Heat and Power."

N. Y., Rochester—See item under "Water-Works."

Penn., Pittsburgh—County Commissioners authorized $125,000 bonds for sewage-disposal plant, and tuberculosis hospital at County Home, Woodville.

Md., Hagerstown—(Official)—City plans to hold election next spring to vote on bonds for constructing sanitary sewers. J. B. Ferguson, City Engr. Noted Dec. 9.

W. Va., Glendale—Citizens plan sewer system. R. Hollingshead, City Engr.

N. C., Beaufort—See item under "Water-Works."

N. C., Lillington—See item under "Water-Works."

N. C., Salisbury—Board of Alderman sold $200,000 bonds for sewers, water-works and improving streets. Noted Aug. 19.

Fla., Ft. Pierce—See item under "Water-Works."

Fla., Okeechobee—City contemplates election to vote on $50,000 bonds for sewer and water systems and electric-light plant.

La., Covington—See item under "Water-Works."

La., Shreveport—Bids will be received by city until Jan. 5 for $750,000 bonds for sewer extensions. This is part of the $1,200,000 bond issue recently voted for municipal water-works plant.

Ky., Lexington—Preliminary plans prepared by Solomon-Norcross Co., for sewage-disposal plant at North Main St. Estimated cost, $350,000. J. White Guyn, City Engr. Noted Dec. 2.

Ohio, Cincinnati—Bids will be received by Philip Fosdick, Dir. of Pub. Ser., until noon, Dec. 27, for improving sewer in Race St. from Elder St. north to existing trunk sewer.

Ohio, Cleveland—Bids will be received until noon, Dec. 30, for sewers in several streets. Robert Hoffman, City Engr.

Ohio, Columbus—Bids will be received by Paul G. Kemper, Clk., Dir. of Pub. Ser., until Dec. 28 for sewers in Richardson Ave. and Essex St. and various alleys.

Ohio, Dayton—Director of Public Service preparing plans for storm sewers.

Ohio, Delaware—City Council considering new sewage-disposal plant.

Ohio, Painesville—Bids will be received by F. L. Kelley, City Clk., until noon, Dec. 27, for the sale of $32,000 bonds for sewers in various streets.

Ohio, Springfield—Bids will be received by Charles E. Ashburner, City Mgr., until noon, Dec. 27, for storm sewer in Lowry St. M. J. Bahin, City Engr.

Ohio, Toledo—L. A. Boulay, County Sanitary Engr., prepared plans for sewage-pumping station. Estimated cost, $40,000.

Wis., Elkhart Lake—Preliminary plans being prepared for sewers. Donahue & Sinz, 720 New York Ave., Sheboygan, Wis., Engr.

Wis., Green Bay—Citizens contemplate concrete and tile sewers in spring. Estimated cost, $40,000. A. Brauns, City Engr.

Wis., Jefferson—Plans being prepared for extension of sewer system. Citizens will vote on bond issue in January. J. B. Brewer, Mayor.

Ill., Batavia—Movement started by Improvement Association of East Batavia for constructing sewer system.

Ill., McHenry—Report submitted by P. E. Green, Engr., estimating cost of sanitary sewer system at $27,000.

Ill., Waukegan—Citizens plan installation of sewer and water mains in Sand St. Estimated cost, $20,367.

Iowa, Des Moines—(Highland Park)—Preliminary plans for eight miles of sewers being prepared. F. Carrs, City Engr.

Iowa, Des Moines—Bids will be received early in January for Closes Creek sewer system. Estimated cost, $197,65[illegible]. Carrs, Engr. Noted Sept. 30.

Iowa, Farragut—Surveys made for the construction of a sewer and drainage system. Estimated cost, $4,000. [illegible] Shenandoah, City Engr. Noted Dec. 2.

Iowa, Hampton—(Official)—Owing to error in procedure of work for sanitary sewer system, bids must be readvertised, and contract will be let some time in January. P. A. Van Celt, City Clk. Noted Dec. 9.

Iowa, Woodbine—City contemplates sewer system. Bruce & Standwear, Omaha, Neb., Engr.

Minn., Faribault—City will construct sanitary sewers. Bids will be received in January. Estimated cost, $4,000. Frank McKellip, City Engr.

Minn., Mankato—City contemplates storm sewer in North Fifth, Rock and other streets. Estimated cost, $6,000. H. P. Blomquist, City Engr.

Minn., St. Paul—Oscar Claussen, City Engr., preparing plans for storm sewer system for St. Anthony Hill section. Estimated cost between $500,000 and $1,000,000.

Minn., St. Paul—Common Council approved plans for sewer in Yankee St. between Cliff and Dousman St.

Kan., Manhattan—Plans being prepared for storm sewer on Manhattan Ave. Fred Walters, City Engr.

Kan., Minneapolis—Press reports state citizens contemplate establishment of new sewer district and sewer system. Estimated cost, $5,000. A. D. Todd, City Clk.

Kan., Ottawa—City plans to improve sewer system. E. M. Cusick, City Clk.

Neb., Pierce—(Official)—Citizens recently voted $20,000 bonds for sewer system. L. P. Tonner, City Clk. Noted Dec. 9.

Mont., Columbus—City will let contract in March for sewer system. Estimated cost, $10,000. N. Cardozo, City Engr. Noted Sept. 30.

Mo., Alton—Plans being prepared for sewer in Shields St.

Tex., Gatesville—Citizens voted $22,500 bonds for construction of sewer system. T. R. Mears, Mayor. Noted Sept. 30.

Tex., San Marcos—Plans prepared by Clyde Potts, 30 Church St., New York, N. Y., for sewage-disposal plant. Noted Dec. 9.

Ore., Baker—City Commissioners will soon award contract for 17,000 ft. of 12-in., 12,700 ft. of 14-in. and 4,800 ft. of 15-in vitrified and concrete sewer pipe. L. R. Stockman, City Engr.

Calif., Alhambra—(Official)—Citizens will vote on bonds for sewer system.

Calif., Santa Monica—(Official)—Citizens recently defeated $250,000 bond issue for storm sewer system. Noted Oct. 28 and Nov. 11.

Ont., Brockville—City plans expenditure of $12,823 for sewers. George K. Dewey, City Clk.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Contract for Davenport Brook Conduit, from Magdala to Washington St., awarded to WILLIAM J. BARRY, 431 Ashland St., West Roxbury, Mass. Estimated cost, $29,871. Edward F. Murphy, Comr. Pub. Wks. Noted Dec. 9.

Mass., Needham—(Official)—Bay State Dredging and Contracting Co., 247 Atlantic Ave., Boston, at $59,055, submitted lowest bid for sewer work, Section No. 104.

N. Y., Yonkers—JAMES J. CORBALIS, 811 Clover St., Yonkers, at $9,760, awarded contract for sewer in Saw Mill River Rd.

N. J., Camden—Contract for sewer in Pensauken Township awarded to W. PENN CORSON, at about $10,000.

N. J., Ridgefield Park—(Official)—Contract for sewer system in West View Section awarded to DI NAPOLI & TARIELLO CONSTRUCTION CO., 11 Broadway, Hackensack, $27,765. Noted Dec. 2 and 16.

Penn., Philadelphia—(Official)—Department of Public Works awarded contract for Packer St. sewer to CANTRELL CONSTRUCTION CO., Philadelphia, at $75,000; Rock Run sewer in Seventh St. to ROBERT HIGGINS, Philadelphia, at $76,000. George S. Webster, Ch. Engr. and Surv. Noted Dec. 9.

Md., Baltimore—Contract for Section No. 1, Waverley trunk sewers, Contract 168, awarded to CARROZZA BROS., 606 Munsey Bldg., Baltimore. Estimated cost, $10,126. Noted Dec. 16.

Ind., Indianapolis—Board of Public Works received low bids for sewer in Henry St. from Federal Contracting Co., Merchants Bank Bldg., Indianapolis, at $4,800; Columbia Construction Co., 2102 Columbia Ave., Indianapolis, at $5,150. B. J. T. Jeup, City Engr.

Ind., New Castle—Contract for sewer in Plum St. awarded to JAMES GARVEY. Estimated cost, $4,827.

Mo., Kansas City—Board of Public Works awarded contract for sewers in two districts, in Division No. 7, to W. C. MULLINS, 1230 Montgall Ave., at $4,085; and in one district in Division No. 3 to ANDERSON & DUNN, 3219 Jefferson Ave., at $7,203. Curtis Hill, City Engr.

Wash., Seattle—(Official)—Contract for sewer system in Mead St. and 51st Ave., S., awarded to WASHINGTON PAVING CO., Smith Bldg., Seattle, at $78,694. Noted Dec. 2.

Calif., Los Angeles—Contract for sewer in Griffin Ave. awarded to P. S. TOMICH, at $11,500. Noted Dec. 9.

Que., Montreal—(Official)—Citizens voted $1,151,453, for sewer work. Work will be done by day labor. L. N. Senecal Secy., Bd. of Comrs. Noted Dec. 2.

GARBAGE

Proposed Work

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., until noon, Dec. 29, for receiving and removing ashes in borough. Contract No. 1502.

N. J., Glen Ridge—Borough Council will issue $15,000 bonds for garbage incinerating plant. Action calling for election to be held Dec. 23 rescinded. Noted Dec. 9.

Penn., Swissvale—Bids will be received until 7 p.m., Jan. 10, by W. H. Garrett, Secy., for collection and disposition of garbage in Borough of Edgewood.

STREETS AND ROADS

Proposed Work

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received until 10:30 a.m., Dec. 27, by Douglas Mathewson, Borough Pres., for improving Odell St. from Unionport Rd. to Starling Ave., Waterbury Ave. from Westchester to Zerega Ave., Newbold Ave. from Castle Hill to Zerega Ave. Noted Dec. 16.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by L. H. Pounds, Borough Pres., until 11 a.m., Dec. 30, for repairing sidewalks on east side of Adams St. between Tillary and Johnson St. and 25 other locations in Heights district, south side of Amity St. between Columbia and Hicks St. and 22 other locations in Heights and Bay Ridge district; west side of Bradford St. between Sutter and Blake Ave. and 21 other locations in New Lots district; regulating and repaving with permanent asphalt pavement on 6-in. concrete base Surf Ave. from West Eighth to West 20th St.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., until noon, Dec. 30, for wood-block pavement in team gangway and wagonway spaces of municipal ferryboats "Bayridge," "Gowanus" and "Nassau," Contract No. 1504. Noted Dec. 16.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., until noon, Dec. 30, for wood-block pavement in team gangway and wagonway spaces of municipal ferryboats "Manhattan," "Brooklyn," "Queens," "Bronx" and "Richmond,' Contract No. 1505. Noted Dec. 16.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., until noon, Dec. 30, for wood-block pavement in team gangway and wagonway spaces of municipal ferryboat 'Mayor Gaynor," Contract No. 1506. Noted Dec. 16.

N. Y., Oswego—Plans being prepared by E. A. Howard, County Supt., for improving 150 miles of highway. Estimated cost, $3,000 per mile.

N. Y., Rome—Bids will be received by W. W. Wotherspoon, State Supt. of Pub. Wks., Albany, until Jan. 11, for improving State Canal by building two connecting highways.

N. J., Atlantic City—(Official)—Bids will be received by Board of Chosen Freeholders of Atlantic County, Mays Landing Court House, until Jan. 1, for paving Meadow Blvd. between Atlantic City and Pleasantville. A. H. Nelson, Atlantic City, Consult. Engr. Noted Oct. 21.

N. J., Jersey City—Bids will be received until 11 a.m., Dec. 30, for improving Neptune Ave. from Hudson Blvd. to west of Romar Ave. with brick.

Va., Petersburg—Sum of $25,000 voted by Council as part of fund to be raised for highway between Petersburg and Hopewell.

W. Va., Kingwood—Election will be held Jan. 25 in Preston County, Kingwood District, to vote on $250,000 bonds for road improvements. Noted Nov. 25.

N. C., Concord—City plans to pave Church St. with asphalt from East Buffalo to Mt. Marys St.

N. C., Greensboro—Bonds for $50,000 voted by citizens for street improvements. Noted Nov. 25.

N. C., High Point—Election will be held to vote on $50,000 bonds for improving streets.

N. C., Salisbury—See item under "Sewers."

S. C., Florence—Bids will be received by J. Newton Johnson, Comr. of Streets, until Jan. 11, for paving and constructing sidewalks, C. H. Carlisle, City Engr.

S. C., Greenville—City contemplates paving portions of Westfield, Church and Pettigrue St. and Green Ave., also sidewalks on McCall and Academy St.

Fla., Bradentown—See item under "Bridges."

Fla., Ft. Pierce—See item under "Water-Works."

Ala., Camden—Citizens voted $4,250 bonds for street improvements. E. B. Kay, Tuscaloosa, Engr.

Ala., Dadeville—Bids will be received until Jan. 12 by Commissioners of Tallapoosa County for road from Dadeville to Chambers County line, 14 miles, from Alexander to Dadeville, 14 miles, and from Camp Hill to East Tallassee Highway, 10 miles.

Ala., Huntsville—Bids will be received by M. S. Bingham, Rd. Superv., until Jan. 4, for 2¼ mi. of waterbound macadam road.

Miss., Columbus—Bonds for $85,000 sold by Board of Supervisors of Lowndes County for road improvements.

Ky., Owensboro—Commissioners of Daviess County contemplate expenditure of $50,000 for road construction next year.

Ohio, Hillsboro—(Official)—Bonds for $7,550 sold for road construction. John F. Ridgway, County Audr. Noted Dec. 2.

Ind., Bedford—Bids will be received by E. W. Edwards, Audr., Comrs. of Lawrence County, until 1 p.m., Jan. 4, for roads in Bond Pleasant Run, Shawswick and Guthrie Townships.

Ind., Bloomfield—Bids will be received by G. E. Kidd, Audr., Comrs. of Greene County, until 2 p.m., Dec. 30, for macadamized road in Fairfield Township.

Ind., Bloomington—Bids will be received until 2 p.m., Jan. 4, by W. F. Kinser, Audr., Comrs. of Monroe County, for road in Bloomington Township.

Ind., Boonville—Bids will be received by G. H. Bass, Audr., Comrs. of Warrick County, until 10 a.m., Jan. 4, for two rock roads in Ohio Township.

Ind., Fowler—Bids will be received by W. Mankey, Audr., Comrs. of Benton County, until 1 p.m., Jan. 3, for roads in Grant, Center and Bolivar Townships.

Ind., Goshen—Bids will be received until 10 a.m., Jan. 3, by J. W. Brown, Audr., Comrs. of Elkhart County, for roads in Concord and Harrison Townships.

Ind., Lebanon—Bids will be received by D. M. Clark, Audr., Comrs. of Boone County, until 2 p.m., Jan. 4, for four roads.

Ind., Monticello—Bids will be received by A. G. Fisher, Audr., Comrs. of White County, until 10 a.m., Jan. 4, for road in Monon Township.

Ind., Newport—Bids will be received until 10 a.m., Jan. 3, by R. Slater, Audr., Comrs. of Vermilion County, for road in Clinton Township.

Ind., Paoli—Bids will be received by E. A. Palmer, Audr., Comrs. of Orange County, until 2 p.m., Dec. 31, for road in Northeast Township.

Ind., Shelbyville—Bids will be received by F. W. Fagel, Audr., Comrs. of Shelby County, until 10 a.m., Jan. 5, for road in Liberty Township.

Ind., Spencer—Bids will be received by George W. Stwalley, Audr., Comrs. of Owen County, until 2 p.m., Jan. 4, for gravel roads in Marion and Jackson Townships.

Ind., Vevay—Bids will be received by J. W. Smith, Audr., Comrs. of Switzerland County, until 1 p.m., Jan. 3, for road in York Township.

Ind., Vincennes—Bids will be received until 2 p.m., Jan. 4, by J. I. Muentzer, Audr., Comrs. of Knox County, for gravel roads in Palmyra and Buseron Townships.

Ind., Williamsport—Bids will be received until 2 p.m., Jan. 3, by D. H. Moffit, Audr., Comrs. of Warren County, for four roads.

Ind., Winamac—Bids will be received until noon, Jan. 4, by W. E. Munchenberg, Audr., Comrs. of Pulaski County, for gravel road.

Ill., Edwardsville—Board of Trade, Alton, interested in proposition to induce Madison County to create $1,000,000 bond issue for roads in county in connection with State-Aid Fund.

Ill., Evanston—(Official)—Bids will be received by H. P. Pearsons, Pres., Bd. of Local Improvements, City Hall, until 8 p.m., Jan. 17, for paving, with brick on concrete, portions of Simpson and Bridge St., Leon Pl., Asbury Ave., Grant St., Noyes St., Leonard Pl., Washington Pl., Wesley, Jackson and Ashland Ave. and Payne St. (See adv.)

Ill., Evanston—(Official)—Bids will be received by H. P. Pearsons, Pres. of Bd. of Local Improvements, City Hall, until 8 p.m., Jan. 17, for paving with brick on concrete portions of Bridge and Payne St., County Rd., Noyes St., Dodge Ave., Grant St., Brown, Grey and Hartray Ave. and Pioneer Rd. (See adv.)

Wis., Milwaukee—City appropriated $300,000 for Lake Shore Drive to be built in 1916.

Iowa, Ames—Bids will soon be received for approximately 110 blocks of paving. J. B. Wickham, City Engr.

Iowa, Ft. Madison—City contemplates 18,000 sq.yd. concrete paving, 18,300 sq.yd. brick paving, and 13,000 lin.ft. concrete curb and gutter. R. J. Lewis, City Engr.

Iowa, Greenfield—(Official)—Bids will be received by H. G. Spooner, Town Clk., until 7 p.m., Jan. 20, for about 25,000 yd. paving, 16,000 ft. curbing and small amount of storm-sewer work.

Minn., Windom—County contemplates expenditure of $30,000 next year for road improvements. D. R. Savage, County Rd. Engr.

Kan., Olathe—Bids will be received until noon, Dec. 27, by G. Z. Erns, Clk., for grading and macadamizing hill on either side of Cedar Creek.

Neb., Omaha—Election will be held in Douglas County Apr. 18 to vote on $2,000,000 bonds for road improvements.

Mo., Chillicothe—Bids will soon be received for paving Calhoun St. from Dickenson to Sunset Ave. J. O. Broaddus, City Engr.

Mo., Seymour—Bids will be received until Jan. 5 by Seymour Special Road District for improving roads. Estimated cost, $30,000.

Mo., Waverly—Citizens of Waverly Special Road District voted $49,000 bonds for rock road.

Ark., Harrisburg—Plans being prepared by Morgan Engineering Co., Memphis, Tenn., for seven-mile macadam road for Poinsett County.

Tex., Athens—Commissioners of Henderson County contemplate election to vote on $100,000 bonds for road construction.

Tex., Bastrop—Bastrop County Road District No. 2 will issue $50,000 bonds for road construction.

Tex., Big Sandy—Citizens voted $75,000 bonds for roads.

Tex., Fredericksburg—Citizens of Gillespie County defeated $300,000 bonds for roads. Noted Oct. 21.

Tex., Gilmer—Bonds for $75,000 voted by citizens for roads in Upshur County, Justice Precinct No. 7. Noted Nov. 25.

Tex., Gonzales—Election will be held Feb. 5 to vote on $75,000 bonds for roads in Gonzales County, Road District No. 2.

Okla., Mounds—Election will be held Dec. 28 to vote on $100,000 bonds for road construction.

Idaho, Boise—S. M. Booth, State Highway Engr., preparing plans for 135 mi. of State-Aid highways.

Idaho, Wallace—Commissioners of Kootenai County have agreed to contribute $15,000 toward proposed boulevard through Fourth of July Cañon to connect national highway through Wallace and Cœur d'Alene with Apple Way leading to Spokane. Estimated cost, $45,000. Noted Nov. 4.

Wash., Chehalis—Preliminary surveys made by Lewis County for hard surfacing pavement to be built next year.

Wash., Everett—Election will be held Dec. 28 to vote on bonds for road work in Snohomish County.

Wash., Pomeroy—City Council plans to pave two principal streeets of city.

Ore., Gresham—Commissioners of Multomah County contemplate appropriation of $50,000 for hard surface highway from Gresham to Fairview.

Ore., Hood River—Appropriation of $60,000 made by County Court for road work in 1916.

Ore., Marshfield—Citizens of McKinley Road District plan to raise $19,600 for road work.

Ore., The Dalles—Bids will be received by County Court until Jan. 6 for constructing two roads.

Que., Montreal—Bids will be received until noon, Dec. 27, by Board of Commissioners, City Hall, for furnishing and delivering 70,000 lin.ft. straight curbstone, 3,500 lin.ft. circular curbstone, 15,000 lin.ft. straight granite curb and 750 lin.ft. circular granite curb.

Ont., Ottawa—City Council authorized widening of Rosemont Ave. Estimated cost, $18,111.

Ont., Ottawa—City Council authorized expenditure of $77,660 for paving portion of Rideau St. with wood-block and asphalt and wood-block pavement. F. C. Askwith, Engr.

Bids In and Contracts Awarded

Mass., Gloucester—Contract for road construction awarded by State Highway Commission, Boston, to T. A. MOYNIHAN, South Hamilton, at $30,423.

Mass., New Braintree—State Highway Commission, Boston, awarded contract for road construction to COLUMBUS CONSTRUCTION CO., 16 Foster St., Boston, at $7,790.

N. Y., Buffalo—GERMAN ROCK ASPHALT AND CEMENT CO., D. S. Morgan Bldg., Buffalo, at $13,140, awarded contract for paving Peckham St. Noted Nov. 4.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract for regulating and repaving 151st St. from west side of Seventh Ave. to east side of McCombs Pl. awarded to UVALDE ASPHALT PAVING CO., New York, at $4,329. Noted Dec. 2 and 9.

N. Y., Yonkers—HANNIFAN CO., at $8,498, awarded contract for improving Ellsworth Ave. and at $6,297, for Amberson Ave.

N. J., Bayonne—Contract for improving Avenue A awarded to ILLINOIS SURETY CO., 170 Broadway, New York, N. Y., at $6,668.

N. J., Hackensack—FRANKLIN VAN RODEN, East Rutherford, at $18,560, awarded contract for improving Meadow Rd. and Rutherford Ave.

W. Va., Charleston—W. D. WEAVER, Charleston, at $33,237, awarded contract for 1¾ miles of road, from Porter's Hollow to Kanawha City, by Commissioners of Kanawha County.

N. C., Westfield—C. C. JORDAN awarded contract for road construction in Westfield Township. About $30,000 available for road work.

Fla., Arcadia—Contract for 36 miles of road awarded to J. W. FARR, Wauchula, at $42,806, by Commissioners of De Soto County.

Ala., Bay Minette—L. C. ROLLINSON, Montgomery, at $5,774, awarded contract for first section of road from Point Clear to Fairhope; Abraham Bros. & Giddens, Montgomery, at $15,077, submitted lowest bid for second section. Noted Dec. 2.

Miss., Edwards—Contract for 6½ miles of gravel road awarded to HINDS COUNTY HIGHWAY CONSTRUCTION CO., Clinton, and T. JACKSON, Clinton. Noted Aug. 19 and Nov. 18.

Miss., Kosciusko—Contract for 39 miles of sand clay and two miles of gravel roads awarded to F. V. HARVEY & CO., Memphis, Tenn., at $38,008. Noted Oct. 28.

Tenn., Maryville—Contract for three miles of road in Blount County awarded to OLIVE & HILL, Knoxville.

Ky., Murray—C. D. McQUARRY, Adams, Tenn., at $7,460, awarded contract for first two miles of highway from Pine Bluff on Tennessee River toward Murray.

Ohio, Washington—(Official)—Contract for improving a number of streets awarded to GEORGE H. HEFFNER & SON, Celina, at $1.80 per sq.yd. Noted Dec. 9.

Ind., Brazil—PFIZENMAYER CONSTRUCTION CO., Terre Haute, at $1.17 and $1.35 per sq.yd. respectively, awarded contract for paving Blaine and Alabama St. with brick.

Mo., East St. Louis—(Official)—Meyer & Thomas, at $21,227, submitted lowest bid for paving Broadway from Third St. to St. Clair Rd. Noted Oct. 7.

Minn., Pine City—(Official)—Contract for Elwell Rd. awarded to C. J. PEARSON & CO., Sandstone, Minn., at $48,042. Noted Dec. 9.

Kan., Newton—Contract for paving about two miles on North and South Main St. awarded to A. JAICKS CONSTRUCTION CO., American Bank Bldg., Kansas City, Mo.

Mo., Kansas City—Contract for paving 17th and Belleview St. awarded to A. JAICKS CONSTRUCTION CO., American Bank Bldg., Kansas City, at $5,450 and $4,633, respectively.

Mo., Warrensburg—Contract for paving a number of streets with brick awarded to J. W. MENEFEE, Sedalia, Mo., at $1.56 per yd.

Tex., Houston—Horton & Horton, at $7,905, submitted lowest bid for paving a number of streets of city.

Tex., San Antonio—TEXAS BITULITHIC CO. awarded contract for paving River Ave. with bitulithic.

Colo., Del Porte—Contracts for eight miles of State Primary Rd. No. 60 awarded to J. E. SHEEHAN, Larkspur, at $9,685, for Section 1, and LOGAN & WEST, Pagosa Springs, at $8,460, for Section 2. Noted Dec. 2.

N. M., Roswell—Cleveland-Trinidad Co., Cleveland, Ohio, at $1.50 per sq.yd., submitted lowest bid for paving Fifth St. from Garden to Pennsylvania Ave.

Wash., Bellingham—Independent Asphalt Paving Co., at $5,062, submitted lowest bid for improving Kentucky St.

Wash., Bellingham—K. Sauset, at $6,321, submitted lowest bid for improving West Holly St. with brick with asphalt covering; J. M. Riddle, at $5,790, with brick without asphalt covering.

Wash., North Yakima—CASCADE CONSTRUCTION CO., Seattle, at $4,935, submitted lowest bid for Permanent Highway No. 17. Noted Dec. 16.

Wash., Seattle—Contract for paving Hamlin St. awarded to P. J. McHUGH, Seattle, at $15,926.

Wash., Seattle—L. COLLUCCIO, 1642 Lane St., Seattle, at $6,352, awarded contract for grading 28th Ave., N. E.

Wash., Seattle—CITY CONTRACTING CO., 1319 21st Ave., S., Seattle, at $27,115, awarded contract for paving Western Ave.

Ore., Portland—Contract for paving Union Ave. from Bryant St. to Columbia Blvd. awarded to OREGON INDEPENDENT CO., at $29,950.

Ore., Portland—Contract for paving East 28th St. and Francis Ave. District in Kenilworth awarded to OREGON HASSAM PAVING CO., at $41,366.

Calif., El Centro—(Official)Bids were received Dec. 6 by State Highway Commission, Sacramento, for 12 miles of concrete highway between Dixieland and El Centro as follows: Fred Hoffman, Long Beach, $72,089; Doran, Armstrong & Daley, San Diego, $83,099; Mesmer & Rice, Los Angeles, $87,512. Noted Nov. 25.

Calif., Ontario—Contract for paving A St. and Bon View Ave. awarded to J. L. FRAZER, Long Beach, at $21,634.

Calif., Richmond—Contract for improving a number of streets awarded to MUNICIPAL IMPROVEMENT CO., 803 Macdonald Ave., Richmond, at $7,006.

Calif., Salinas—Contract for Castroville-Monterey Rd. awarded to GRANITE ROCK CO. at $38,542.

Calif., San Francisco—Contract for improving 24th Ave. awarded to OWEN McHUGH at $9,979.

INDUSTRIAL WORKS

Proposed Work

Maine, Waterville—J. E. McCormick & Son leased property at Waterville and will build two-story, 40x150-ft. warehouse. Estimated cost, $12,000.

Mass., Boston—(Allston)—Plans being prepared for automobile warehouse on Commonwealth Ave. for George Grow. Estimated cost, $150,000.

Mass., Malden—H. H. Kelley Co., 230 Purchase St., Boston, will build two-story, 40x120-ft. factory. McNaughton & Robinson, 101 Tremont St., Boston, Arch.

Mass., Worcester—Plans prepared by E. T. Chapin, Arch., for three-story, 60x100-ft. addition to plant of New England Corset Co.

R. I., Providence—Terminal Warehouse Co. will build one-story, 100x300-ft. addition to warehouse on Allens Ave.

Conn., Putnam—Manhasset Manufacturing Co. will build two-story, 120x180-ft. addition to plant on Canal St.

N. Y., Bath—Borden Condensed Milk Co. will establish plant at Bath. Estimated cost from $20,000 to $25,000.

N. J., Elizabethport—(Elizabeth post office)—Bids will soon be received for two-story machine shop for S. L. Moore Son Corporation. Estimated cost, $160,000. Ring, Cleaves, Graham Co., 280 North Broad St., Elizabeth, Arch.

N. J., Trenton—Plans prepared for three-story, 200x350-ft. addition to plant of Ajax-Grieb Rubber Co. Samuel M. Green Co., Arch. Noted Sept. 30.

Penn., Contesville—Midvale Steel and Ordnance Co. will construct additions to its plant. Estimated cost, $6,000,000.

Penn., New Galilee—Beaver Clay Co., Beaver, will build plant. Estimated cost, $100,000. Mitchel Baker, Beaver, Engr.

Penn., Philadelphia—Belmont Iron Works plans 92x108-ft. hammer shop at Milnor and Bleight St. Estimated cost, $10,000.

Penn., Philadelphia—Bids will soon be received for three- or four-story mill and power house at Reed, Dickinson, 25th and 26th St. for S. B. & B. W. Fleisher, Eighth and Chestnut St. William Steel & Sons Co., 1600 Arch St., Philadelphia, Arch. Noted Dec. 9.

Penn., Westfield—Preliminary plans being prepared by Pierce & Bickford, Arch., 118 Lake St., Elmira, N. Y., for two-story, 50x200-ft. welt house for Everly Tannery. Estimated cost, $30,000.

D. C., Washington—Plans being prepared for two-story, 55x145-ft. garage for Thomas W. Smith. Estimated cost, $30,000.

Va., Lynchburg—Lynchburg Diamond Ice Co. will build warehouse. G. A. Barnett, Mgr.

Va., Norfolk—S. D. Scott & Co. will rebuild grain elevator recently destroyed by fire.

Va., Norfolk—Plans being prepared by B. F. Mitchell, Norfolk, for three-story, 128x166-ft. warehouse on Dunmore St. for Southgate Terminal Corporation.

W. Va., Wheeling—Wheeling Steel and Iron Co. contemplates combination sheet and bar mill. Estimated cost, $200,000. I. M. Scott, Pres., Main and South St., Wheeling.

S. C., Woodruff—Woodruff Cotton Mills will build four-story, 80x124-ft. addition to plant.

Fla., Jacksonville—Eagle Film Manufacturing and Producing Co. will build plant at Jacksonville. M. F. Kellt, Supt. local plant.

Fla., Miami—Coöperative Ice and Cold Storage Co. will build cold-storage plant.

Fla., Mulberry—Mulberry Explosives and Supply Co. will build 50x120-ft. plant. Amos H. Norris, Mgr.

Tenn., Bristol—G. L. Archeuline will build abattoir. Estimated cost, $60,000.

Tenn., Bristol—Bristol Grocery Co. will erect building at Bristol. Estimated cost, $50,000.

Tenn., Chattanooga—Cameron & Barr Co. contemplates bakery. Estimated cost, $55,000.

Ohio, Celina—(Official)—Bids will be received until Jan. 3 for addition to plant of Mersman Bros. & Brandt. Estimated cost, $15,000. Noted Dec. 2.

Ohio, Cleveland—Abbott Realty Co., 5606 Euclid Ave., Cleveland, will build factory and office building at East 61st St. and Euclid Ave. Estimated cost, $100,000.

Ohio, Cleveland—Preliminary plans being prepared for two-story factory for Cleveland Galvanizing Works. W. J. Carter, 1423 Illuminating Bldg., Cleveland, Arch.

Ohio, Cleveland—Sheriff Street Market and Cold Storage Co. plans to build cold-storage plant. Estimated cost, $500,000.

Ohio, Collinwood—Plans being prepared for one-story, 75x225-ft. and 75x100-ft. forging plant for Horsburgh Forging Co.

Ohio, Martins Ferry—It is reported that American Seamless Tube Co., Inc., will build plant. Estimated cost, $2,000,000.

Ohio, Martins Ferry—La Belle Box Co. contemplates building two-story box factory. Estimated cost, $25,000. Martin L. Maxwell, Mgr.

Ohio, Toledo—Toledo Furnace Co. plans blast furnace and steel plant. Estimated cost, $5,000,000.

Ind., Rushville—National Serum Co. purchased site at Rushville and will build plant. Estimated cost, $100,000.

Mich., Kalamazoo—Riverview Coated Paper Co. will build plant. Estimated cost, $400,000.

Ill., Chicago—Plans being prepared for four-story factory for American Ever Ready Works. S. Scott Joy, 1118 West 35th St., Chicago, Arch.

Ill., Chicago—Plans being prepared by S. Scott Joy, Arch., 1118 West 35th St., Chicago, for four-story factory for Central Bag Manufacturing Co., 1545 West 35th St.

Ill., North Chicago—Pfanstiehl Electric Laboratory contemplates building two-story, 35x130-ft. factory. Carl Pfanstiehl, Pres.

Ill., Watertown—Bids will be received until 3 p.m., Dec. 27, by Frank D. Whipp, Fiscal Superv. Bd. of Administration, for addition to laundry of Watertown State Hospital.

Wis., De Pere—Bids will be received in spring for two-story, 60x106-ft. factory for Western Steel and Iron Works.

Wis., Madison—Preliminary plans being prepared for plant for French Battery and Carbon Co. J. B. Ramsey, Pres.

Wis., Manitowoc—Plans being prepared for three-story, 60x80-ft. warehouse for J. F. Kapple & Co., South 15th St. Juul & Sixta, 107 North Eighth St., Manitowoc, Arch.

Wis., Milwaukee—Plans being prepared by F. W. Andree, Arch., 77 Cawker Bldg., Milwaukee, for four-story, 75x150-ft. manufacturing building for Wallace Realty Co.

Wis., New Richmond—Bids will be received about Dec. 27 by Gardner & Linberg, Arch., 140 South Dearborn St., Chicago, Ill., for three-story, 80x120-ft. reinforced-concrete packing plant for Inter-County Coöperative Packing Co. Estimated cost, $100,000. Noted Nov. 11.

Wis., Oshkosh—(Official)—Bids will soon be received for two-story, 40x80-ft. factory for Carver Ice Cream Co., 714 South Main St. Fluor Bros. Construction Co., 511 State St., Arch. Estimated cost, $15,000. Noted Dec. 16.

Wis., Sheboygan—Gutsch Brewing Co. will rebuild brewery recently destroyed by fire. Estimated cost, $20,000.

Iowa, Creston—It is reported that Charles B. Elliot, local agent for Ford Motor Co. plans two-story brick garage at West Mills and Maple St. Estimated cost, $15,000.

Iowa, Des Moines—Marks Hat Co. will build two-story, 44x150-ft. addition to factory at 213 Third St. Estimated cost, $20,000.

Minn., Hopkins—Plans prepared for one-story, 100x290-ft. plant for American Improved Seat Co. Haugen & Newstrom, Iron Exchange Bldg., Minneapolis, Arch. Noted Oct. 14.

Minn., Mankota—Plans prepared for two-story, 66x130-ft. factory for Hugo Shirt Co. Estimated cost, $18,000.

Minn., St. Paul—American Can Co., 747 North Prior Ave., will build addition to plant in Midway District. Estimated cost, $100,000.

Minn., St. Paul—(Official)—Bids will be received about Jan. 10 by C. H. Johnson, Arch., 715 Capital Bank Bldg., St. Paul, for three-story, 100x150-ft. plant for Brown, Blodgett & Sperry Co. Noted Dec. 9.

Minn., St. Paul—Chevrolet Motor Car Co., Flint, Mich., will build assembling plant at St. Paul. Estimated cost, $300,000.

Minn., St. Paul—Lead Coating Manufacturing Co., subsidiary of Brown Sheet Iron and Steel Co., will build plant at Berry and Pearl St. Estimated cost, $100,000.

Minn., St. Paul—F. G. Leslie Paper Co. will erect building at 248 East Fourth St. Estimated cost, $250,000.

Kan., Augusta—It is reported that Wichita Ice and Cold Storage Co. will build ice plant and cold-storage house. Estimated cost, $12,000.

Kan., Osborne—Plans being prepared for ice plant for H. B. Vinuing, 503 Finance Bldg., Kansas City.

Kan., Overland Park—Swanson St. Joseph Plow Manufacturing Co. will build factory. Estimated cost, $15,000. H. S. Swanson, Pres.

Wyo., Lowell—Big Horn Basin Sugar Co., branch of Great Western Sugar Co., Denver, Colo., will build factory at Lowell.

Mont., Livingston—Charles Garnier, Sr., contemplates building cigar factory.

Mo., St. Louis—Plans being prepared by T. P. Barnett Co., Central National Bank Bldg., St. Louis, Arch., for ten-story factory for Blanton Co.

Mo., St. Louis—Brilliant Sign Co. purchased site at St. Louis, and will build four-story plant.

Tex., Abilene—See item under "Buildings."

Tex., Beaumont—Plans being prepared for two-story building at Park and Washington St., for Phelan-Josey Grocery Co. Estimated cost, $40,000.

Tex., Dallas—(Official)—Bids will be received until Jan. 10 for mattress factory for T. B. Burnett & Co. Estimated cost, $65,000. Noted Dec. 9.

Tex., Dallas—Pierce-Fordyce Oil Association will build warehouse. Estimated cost, $38,000.

Tex., El Paso—Perry-Kirkpatrick Co. will erect warehouse. Estimated cost, $18,000.

Tex., Ft. Worth—John B. Laneri will build two-story, 60x100-ft. warehouse on East Elizabeth St. Estimated cost, $14,000.

Tex., Laredo—North Laredo Packing Co. plans to build cold-storage and pre-cooling plant.

Tex., Tyler—Tyler Ice Co. plans two-story, 38x112-ft. brick and concrete factory.

Tex., Waxahachie—Waxahachie Cotton Mill will build two-story, 57x150-ft. addition to factory.

Okla., Altus—It is reported that Interstate Compress Co. will rebuild its plant recently destroyed by fire. Estimated cost, $100,000.

Okla., Tulsa—Right Way Laundry will build laundry. Estimated cost, $10,000.

Colo., Buena Vista—(Official)—Bids will be received until Jan. 30 for smelting and cyanide plant for National Manufacturing and Constructing Co. Estimated cost, $150,000. Noted Dec. 2.

Colo., Pueblo—Weaver Investment Co. will build garage on Ninth St. Estimated cost, $25,000. R. J. Weaver, Pres.

Idaho, Filer—Volger Seed Co., Salt Lake City, Utah, purchased site at Filer and will build warehouse and grain elevator.

Utah, Brigham—Utah-Idaho Sugar Co. will build factory. Estimated cost, $1,000,000.

Wash., Spokane—Plans prepared for five-story, 100x150-ft. warehouse for E. H. Stanton Co. Estimated cost, $100,000.

Wash., Spokane—Reported that Western Soap Co. plans to enlarge factory. Estimated cost, $20,000.

Ore., Albany—Plans prepared for mill for Thomas Pulp and Paper Co. Estimated cost, $750,000. Noted Oct. 7.

Ore., Oregon City—Hawley Pulp and Paper Co. plans addition to mill. Estimated cost, $500,000. W. P. Hawley, Sr., Pres.

Calif., San Francisco—Ford Motor Co. will build five-story reinforced-concrete addition to assembling plant at 21st and Harrison St. J. B. Lund, Mgr.

Ont., Hamilton—Canadian Cartridge Co., Ltd., will enlarge its plant and install new equipment. Estimated cost, $500,000. F. W. Bathlie, Pres.

Ont., Hamilton—Steel Co. of Canada will build additions to plant.

Ont., Toronto—W. H. Harris will build warehouse on Richmond St. Estimated cost, $18,000.

B. C., Port Moody—Plans being prepared for steel plant for Port Moody Steel Works, Ltd. Noted Nov. 28.

Bids In and Contracts Awarded

Mass., Everett—Broad Gauge Iron Works, 77 Portland St., Boston, awarded contract for factory at Everett to CLARK & LEE, 201 Devonshire St., Boston. Estimated cost, $12,000.

Mass., Worcester—Contract awarded to E. J. CROSS CO., 82 Foster St., Worcester, for four-story, 63x106-ft. concrete mill for Worcester Woolen Co. Noted Nov. 18.

R. I., Woonsocket—Contract for four-story, 120x278-ft. addition to Nyanaza Mills, two-story, 100x130-ft. picker room and four-story, 68x100-ft. store room awarded to TORRINGTON BUILDING CO., Torrington, Conn.

Conn., Stamford—(Official)—Contract for rolling mill on Fairfield Ave. for American Cupro Nickel Co. awarded to S. A. GREGORY, Stamford. Estimated cost, $20,000. Noted Dec. 16.

N. Y., Buffalo—Contract awarded to SCHAFF CO., Mutual Life Bldg., Buffalo, for garage for Charles M. Peabody, 588 Main St. Estimated cost, $20,000. Noted Dec. 16.

N. Y., Rochester—Best Yet Laundry Co. awarded contract for two-story, 55x138-ft. laundry to J. L. STEWART, 126 North Water St., Rochester.

N. Y., Rochester—Contract for one-story, 168x264-ft. factory for North East Electric Co. awarded to A. LINK, 654 South Ave., Rochester. Estimated cost, $20,000.

N. Y., Rochester—Rochester Motor Co. awarded contract for one-story, 62x150-ft. plant to DUNNING & SCOTT, 53 Ardmore St., Rochester. Estimated cost, $10,000.

N. Y., Syracuse—Contract awarded to D. W. NICHOLSON, 514 Turtle St., Syracuse, for 70x140-ft. plant for Crucible Steel Co. of America. Estimated cost, $15,000.

N. Y., Syracuse—Syracuse Malleable Iron Works awarded contracts for one-story, 110x150-ft. foundry to WILLIAMS BRIDGE CO., for structural steel and iron and to DAWSON BROS., for masonry.

N. J., Newark—Contract for bottling plant on Waverly Ave. for Seiler Bros., Inc., awarded to WILLIAM G. SHARWELL & CO., at $29,950.

Penn., Berwyn—Contract for ice-storage building for Bryn Mawr Ice Manufacturing Co., Bryn Mawr, Philadelphia, awarded to HERMAN VOIGHT, Philadelphia.

Penn., Philadelphia—Contract for one-story, 60x550-ft. machine shop for Midvale Steel Co. awarded to BARCLAY WHITE CO., Perry Bldg., Philadelphia.

Penn., Philadelphia—General contract for four-story, 54x192-ft. factory for Schaum & Uhlinger, Inc., awarded to WILLIAM STEELE & SONS CO., 1600 Arch St., Philadelphia. Estimated cost, $15,000.

Penn., Philadelphia—Contract awarded to A. RAYMOND RAFF, 1635 Thompson St., Philadelphia, for two-story, 50x100-ft. foundry for Schneider-Bowman Co.

Penn., Philadelphia—Contract for seven-story factory at 10th and Filbert St. for Samuel Sternberger awarded to FREUND-SIEDENBACH CO., Bulletin Bldg. Estimated cost, $25,000.

Penn., Pottstown—Contract for two-story, 134x170-ft. plant for National Rubber Co., Pottstown, awarded to JAMES H. WELLS, Heed Bldg., Philadelphia. Estimated cost, $100,000. Noted Nov. 25.

Penn., South Bethlehem—Bethlehem Steel Co. awarded contract for concrete work for addition to machine shop No. 2 to WILLIAM STEELE & SONS CO., Arch St., Philadelphia, at about $100,000. Noted Sept. 23.

Del., Wilmington—Contract awarded to JOHN E. HEALY & SON for two-story, 50x100-ft. garage for L. McKee. Estimated cost, $20,000.

D. C., Washington—Contract for two-story, 33x130-ft. garage for John H. Schwarzmann awarded to M. A. WELLER, 814 14th St., Washington. Estimated cost, $15,000.

D. C., Washington—Contract for two-story, 30x60-ft. garage for R. E. Trimble and F. M. Clark awarded to JAMES C. MARSH. Estimated cost, $10,000.

D. C., Washington—Contract for one-story garage for J. H. Wurdemann awarded to RICHARDSON & BURGESS, Washington. Estimated cost, $15,000.

W. Va., Wheeling—Wheeling Mold and Foundry Co. awarded contract for two-story, 57x140-ft. addition to foundry to R. R. KITCHEN CO. Estimated cost, $10,000. Noted Sept. 23.

Ga., Atlanta—Contract awarded to SOUTHERN FERRO CONCRETE CO., Atlanta, for ice-storage house and shipping platform at Inman Yards for Atlantic Ice and Coal Corporation. Estimated cost, $25,000.

Ga., Augusta—General contract awarded to O. T. BROWN, Augusta, for two- and three-story, 76x146-ft. bakery for H. H. Claussen Baking Co. Estimated cost, $40,000.

Ky., Lexington—Chesapeake & Ohio Railway awarded contract to COMBS LUMBER CO., Lexington, for roundhouse, storehouse, office and club house in Netherland Yards. Estimated cost, $30,000.

Ohio, Columbus—Columbus Bank Note Co., 66 East Gay St., awarded contract for two-story reinforced-concrete factory at 46 East Spring St. to C. R. CURRAN CONSTRUCTION CO. Estimated cost, $16,000.

Ohio, Norwood—Contract awarded to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St., Cincinnati, for factory for Ault & Wiborg. Estimated cost, $75,000.

Ohio, Shadyside—Addition to plant of Belmont Casket Co. will be built by day labor. Estimated cost, $20,000. Noted Dec. 16.

Mich., Detroit—Detroit Battery Co. awarded masonry contract for three-story, 70x90-ft. factory to P. C. SCHULTZ.

Mich., Detroit—Regan & Jones Pie Co. awarded contract for one-story factory on Russell St. to OVERLAND CONSTRUCTION CO. Estimated cost, $14,000.

Ill., Chicago—Contract for five-story factory for J. N. Eisendrath Co. awarded to M. RAUEN, 111 West Washington St., Chicago.

Ill., Chicago—Contract for one-story garage at 5016 Cottage Grove Ave. for Louis Neroman awarded to HENRY ERICSON. Estimated cost, $18,000.

Ill., Chicago—Contract for five-story warehouse at 2114 Carroll Ave., for Vauglin & Bushnell awarded to R. SOLLITT & SONS. Estimated cost, $30,000.

Ill., Chicago—Contract awarded to A. T. KRAMER for one-story factory at 1515 Dayton St., for E. H. Wach. Estimated cost, $35,000.

Ill., Clearing—Wilson & Bennett Manufacturing Co. awarded contract for two-story, 100x200-ft. plant to PETER OLSON CO. Estimated cost, $55,000.

Ill., North Chicago—Contract for two tanneries for Wilder-Manning Co. awarded to JOHN H. SUTTER, 30 North La Salle St., North Chicago.

Wis., Racine—West Side Laundry Co. awarded contracts for laundry to BONDGARD & CHRISTENSEN, mason and concrete, and ROBERTS CO., cut stone. Estimated cost, $15,000.

Iowa, Des Moines—(Official)—Contract for three-story, 45x160-ft. warehouse for Farmers' Coöperative Products Co. awarded to BENSON & MARXER, Des Moines. Estimated cost, $40,000. Noted Dec. 16.

Minn., Rochester—Contract awarded to G. SCHWARTZ & CO., Rochester, for two-story, 74x95-ft. garage for Case Auto Co. Estimated cost, $20,000.

Mo., Kansas City—Nafziger Baking Co. will build two-story, 50x100-ft. bakery by day labor. Estimated cost, $40,000. Noted Nov. 11.

Mo., St. Louis—Contract for one-story, 78x131-ft. bottling shop for Griesedieck Bros. Brewing Co. awarded to J. H. REMMERS, 2040 Russell St., St. Louis.

Tex., Galveston—Contract for rebuilding packing plant of Armour & Co., recently destroyed by fire, awarded to W. L. MOODY & CO., Chattanooga, Tenn. Estimated cost, $6[illegible],000. Noted Sept. 23.

Okla., El Reno—El Reno Mill and Elevator Co. awarded contract for additions to plant to LEHRACK CONTRACTING AND ENGINEERING CO., Kansas City, Mo. Estimated cost, $40,000.

Wash., Seattle—Bids were received Dec. 1 for four-story addition to warehouse on Whatcom Ave. for Port of Seattle Commission from Kiehl & Whipple, Central Bldg., Seattle, $32,867; Kieburtz & Smith, $35,600; Beers Building Co., $36,200. Noted Nov. 18.

Calif., Colton—Contract awarded to LEONARDT & PACK, H. W. Hellman Bldg., Los Angeles, for cold-storage plant and loading platform at Colton for Pacific Fruit Express Co. Estimated cost, $25,000.

Calif., San Francisco—Contract for three-story tobacco factory at Fourth and Brannan St. for John Bollman Co. awarded to LANGE & BERGSTROM, Sharon Bldg., San Francisco, at $135,000.

FEDERAL GOVERNMENT WORK

Proposed Work

R. I., Newport—Shelving, Racks, etc.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Jan. 8, for metal shelving, portable steel racks, steel boxes, etc., at naval torpedo station, Newport, R. I.

W. Va., Wheeling—Power Houses—Bids will be received at U. S. Engineer Office, Wheeling District, Wheeling, until 11 a.m., Jan. 22, for fireproof power houses at Dams Nos. 16 and 17, Ohio River. (See adv.)

N. C., Shelby—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 26, for U. S. post office at Shelby.

Iowa, Washington—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 28, for U. S. post office at Washington.

Colo., Montrose—Canal Work—Bids will be received at office of U. S. Reclamation Service, Montrose, until 4 p.m., Jan. 18, for about 9½ mi. of Peach Valley Lateral, Uncompahgre Valley Project, vicinity of Austin. (See adv.)

Wash., Ellensburg—Post Office—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Jan. 27, for U. S. post office at Ellensburg.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Brooklyn)—Dredging—Contract for dredging at navy yard awarded to COASTWISE DREDGING CO., Norfolk, Va., at 25⅞c. per cu.yd. Noted Nov. 18 and Dec. 16.

S. C. Charleston—Cranes—Contracts for shipbuildig equipment at Charleston awarded as follows: Cranes to McMYLER INTERSTATE CO., Bedford, Ohio, $23,490; ways to SIMONS-MAYRANT CO., Charleston, $19,073. Noted Oct. 14 and Nov. 25.

Fla., Pensacola—Paving—Contract for concrete pavement at navy aëronautic station, Pensacola, awarded to C. H. TURNER CO., Pensacola, at $9,489. Noted Nov. 11 and Dec. 9.

Ky., Louisville—Lock Bridges—Milwaukee Bridge Co., 1400 34th St., Milwaukee, Wis., at $23,717, submitted lowest bid for swing bridge over locks of Louisville and Portland Canal. Noted Nov. 11.

Mo., Moberly—Remodeling Post Office—Contract for remodeling post office at Moberly awarded to ORIGINAL CABINET CO., Evanston, Ill., at $31,450. Noted Sept. 23 and Oct. 21.

Tex., El Paso—Canal Work—U. S. Reclamation Service awarded contracts for canal work as follows: TOOHEY & JOHNSON, Phœnix, Ariz., at $23,000, for approximately 162,000 cu.yd. of earthwork for Leasburg Canal and Piacache Branch Canal; H. E. WILLIAMS, El Paso, at $3,149, for earthwork on San Elizaro feed canal near Ysleta; JOHN MULLIGAN, El Paso, at $2,838, for earthwork on San Elizaro feed canal. Noted Oct. 28.

Hawaii, Pearl Harbor—Buildings—J. L. YOUNG, Honolulu, H. T., at $26,100, awarded contract for power house, operating building and double quarters for chief operators at Naval Station, Pearl Harbor. Noted Nov. 4 and 11 and Dec. 9.

Hawaii, Pearl Harbor—Marine Railway—Bids were received Dec. 18 for marine railway at naval station, Pearl Harbor, (a) structural steel ship cradle complete with rollers and roller frames delivered at bidder's plant, (b) same delivered at Pearl Harbor, (c) materials for construction of engine house delivered at bidder's plant, (d) same delivered at Pearl Harbor, (e) electrically driven hoist, wire rope, bilge block chains, etc., delivered at bidder's plant, (f) same delivered at Pearl Harbor, (g) piling and concrete work, including steel reinforcement and steel roller paths, etc., (h) erection of steel ship cradle, (i) erection of house for hoist, (j) erection of electrically driven hoist, as follows: Spalding Construction Co., San Francisco, Calif., (a) $24,337, (b) $30,446, (c) $3,334, (d) $4,485, (e) $38,110, (f) $48,102, (g) $45,173, (h) $6,363, (i) $1,400, (j) $1,750; Lenher Engineering Co., 100 Broadway, New York, N. Y., (e) $26,970; United States Steel Products Co., 30 Church St., New York, N. Y., (a) $21,906, (b) $26,578, (c) $3,000, (d) $3,680. Noted Oct. 21 and Nov. 25.

CANALS, DITCHES—IRRIGATION

Proposed Work

Mass., Boston—Dredging—Bids will be received until noon, Dec. 27, by Directors of Port of Boston for dredging 35,000 cu.yd. in Neponset River. Noted Oct. 7.

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., until noon, Dec. 29, for dredging slip on east side of Pier No. 21, East River, Contract No. 1487.

Fla., New Symrna—Drainage—Preliminary surveys being made by Isham Randolph & Co., Consult. Engr., Jacksonville, for draining about 43,000 acres for Lake Ashby Drainage District. Estimated cost, $300,000. Noted Dec. 2.

Iowa, Clarinda—Ditch—Bids will be received about Feb. 1 by C. W. Duke, Audr. of Page County, for ditch five miles long. A. S. Can Sandt, Engr.

Iowa, Emmetsburg—Drainage—Contracts will be awarded in March for drainage ditch for Des Moines River Valley. Estimated cost, $105,000. G. R. Campbell, Emmetsburg, Engr. Noted Dec. 9.

Minn., Walker—Ditch—Contract will be awarded about Feb. 2 for D. L. Frazier Ditch. Estimated cost, $29,000. A. W. Moulster, Pine River, Engr.-in.-charge.

Minn., Willmar—Ditch—Lake Lillian Judicial Ditch will be 60 miles long. Estimated cost, $143,934. John Norgaard, Granite Falls, Engr.

Kan., Topeka—Ditch—Bids will soon be received by East Side Drainage District for drainage ditch in Shungnunga Creek. G. E. Burnam, 1202 East Sixth St., Topeka, interested.

Ark., Marion—Canals—Plans being prepared by Willis A. Ayres, Memphis, Tenn., for canals and ditches in connection with Arkansas Drainage Districts. Estimated cost, $250,000.

Tex., Alpine—Irrigation—Jackson & Harmond will build pumping plant and irrigation system.

Tex., Ballinger—Irrigation—Anton Mika will install pumping plant on Colorado River and construct irrigation system to irrigate 150 acres.

Tex., Mercedes—Irrigation—John T. Beamer Co., Chicago, Ill., purchased holdings of American Rio Grande Land and Irrigation Co. and will construct pumping plant and extend irrigation-canal system. Estimated cost, $3,000,000.

Tex., San Antonio—(Official)—Irrigation—Plans prepared for reservoir and to install pumping plant to irrigate 3,017 acres in Leon Springs Valley, Bexar County, for Leon Springs Irrigation Co. Noted Nov. 25 under Leon Springs, Tex.

N. M., Columbus—Irrigation—M. L. Barringer will install irrigation pumping plant.

N. M., Dexter—Irrigation—H. W. Goodner plans to install irrigation pumping plant at Dexter.

Idaho, Caldwell—(Official)—Irrigation— Citizens defeated $27,000 bond issue in Caldwell Irrigation District for repairing and enlarging system. Noted Dec. 2.

Ariz., Walnut Grove—Dam—Plans prepared for reinforced-concrete dam across Hassayampa River to irrigate 17,600 acres for E. Whitman, Philadelphia, Penn.

Calif., Colusa—Irrigation—Blevins Mallon Ditch Co. applied to State Water Commission for permit to appropriate waters of Sacramento River to irrigate about 2,000 acres in Colusa County.

Calif, Colusa—Irrigation—Cheney Slough Irrigation District plans irrigation in Colusa County. B. H. Mitchell interested.

Calif., Paradise—Irrigation—Citizens petitioned Board of Supervisors for organization of irrigation district to build two storage reservoirs. Estimated cost, $150,000.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Manhattan)—(Official)—Dredging—P. Sanford Ross, Inc., 277 Washington St., Jersey City, N. J., at $0.30 per cu.yd., submitted only bid for dredging North River from 103 to 109th St., 33,000 cu.yd. Noted Dec. 9.

Ind., Ridgeville—(Official)—Ditch—Contract awarded to T. A. ERWIN, Greenville, Ohio, at $22,348, for ditch.

Iowa, Denison—Ditch—Contract awarded to LANA CONSTRUCTION CO., Council Bluffs, for laterals Nos. 1 and 2 of Boyer Ditch No. 1, and 13,000 cu.yd. excavation near Arion.

Minn., Bemidji—(Official)—Ditch—Contract for Judicial Ditch No. 36 awarded to JOHNSON & BAUNN, Superior, Wis., at $194,238. Noted Dec. 2.

Tex., Corpus Christi—Drainage—All bids received Dec. 6 for ditches for Drainage District No. 2, Nueces County, rejected as being too high. Noted Dec. 2 under Robstown, Tex.

Tex., Victoria—Drainage—Contract for improving Drainage District No. 3 awarded to J. B. ARPIN & DRAINAGE CO., Houston, at $126,188. Noted Sept. 30.

MISCELLANEOUS

Proposed Work

N. Y., Medina—Improving Dock Wall—Bids will soon be received by W. W. Wotherspoon, State Supt. of Pub. Wks., for improving dock wall and grading and resurfacing site near Church St.

N. Y., New York—(Official)—Steel Float—Contract will soon be awarded for steel float 110 ft. long by 50 ft. wide by 10 ft. deep, of ¼-, ⅜- and ½-in. plate, with channel iron framed interior. All to be knocked down ready for export shipment. Time of delivery, four-five months. Delivery east of Mississippi. (See adv.)

N. Y., New York—Steel Tubing—Sociedad General De Represenantaciones, Madrid, Spain, has a quantity of flush-joint steel tubing in the following sizes: 273x260x256; 283x 226x222; 104x193x191; 173x165x163; 149x138x136; 102x93x91. It can place orders immediately for from 3,000 to 10,000 of seamless flush-joint tubes in standard random lengths. Henry S. Moos, M. E., 30 Church St., New York, Gen. Mgr.

N. Y., New York—(Borough of Manhattan)—(Official)—Improvements to Radiographic Department—Bids will be received by Board of Trustees of Bellevue and Allied Hospitals, 415 East 26th St., until noon, Dec. 27, for constructing, erecting and completing changes in Radiographic Department of Pavilion K, Bellevue Hospital.

N. Y., New York—(Borough of Manhattan)—(Official)—Pier—Bids will be received by R. A. C. Smith, Comr. of Docks, Pier "A," Battery Pl., until noon, Dec. 28, for widening pier at foot of West 57th St., North River, constructing shed foundations and laying concrete surface on piers at West 56th and West 57th St., North River, and bulkhead adjacent.

N. J., East Orange—Underground Cable—Bids will be received until 8 p.m., Jan. 4, by C. E. Mitchell, Pres. Fire Com., for five miles of underground cable.

N. J., Linden—Fire House—Town Council appropriated $20,000 for fire house at Wood and Morris Ave.

Penn., Philadelphia—Improving Pier No. 46—Bids will soon be received for improving Pier No. 46, south wharves for Pennsylvania R.R. Co. William H Cookman, Arch.

W. Va., Huntington—Mausoleum—Plans will be prepared by J. K. Hall, Arch., for one-story mausoleum for West Virginia American Mausoleum Co., 631 National Exchange Bank Bldg., Wheeling. Estimated cost, $60,000.

Fla., Daytona—Pavilion—C. G. Burgoyne will build 150x 150-ft. pavilion with about 40-ft. extending over river.

Tenn., Cowan—Coaling Station—Nashville, Chatttanooga & St. Louis Ry. will build automatic coaling station. Louis H. McDonald, Ch. Engr.

Tenn., Knoxville—(Official)—Underpasses—Knox County Road Commission will construct five underpasses. E. J. Gorham, County Highway Engr. Noted Dec. 9.

Ohio, Cincinnati—Speedway—Plans will be prepared by Harry Hake, Arch., Telephone Bldg., Cincinnati, for speedway.

Ohio, Defiance—See item under "Railways."

Ohio, Portsmouth—(Official)—Flood-Protection Wall—All bids received Dec. 8 for flood-protection wall rejected. New bids will be received. Noted Dec. 2.

Ind., Bicknell—Coaling Station—Pennsylvania R.R. contemplates building coaling station. Estimated cost, $150,000.

Minn., Minneapolis—Coal Distributing Plant—Berwind Coal Co., Minneapolis, will build coal-distributing and storage plant on 29th St.

Minn., St. Paul—Steel Stairway—Bids will be received until 10:30 a.m., Dec. 27, by A. Hohenstein, Pur. Agt., for steel stairway on Hall Ave. between South Wabasha St. and Prospect Terrace. Noted Dec. 2.

Tex., Victoria—Fire Station—Plans prepared for two-story fire station. Estimated cost, $15,000.

Calif., Sacramento—Levee Repair—State Reclamation Board completed surveys for repairs and revetment of levee on east side of Sacramento River.

France, Avignon—Metal Products—A union of 15 French firms, in wholesale iron, steel, ironware and hardware business, buying together more than 25,000,000 francs yearly, is in market for all American metal products. Berton-Sicard, Avignon, interested.

Bids In and Contracts Awarded

Mass., Malden—Comfort Station—Contract for one-story comfort station awarded to APTED & McDUFFIE, 265 Pleasant St., Malden. Estimated cost, $15,000.

Conn., Riverside—Swimming Pool—Contract for swimming pool for A. Langeloth awarded to C. W. LUYSTER, JR., 35 Nassau St., New York, N. Y. Estimated cost, $12,000.

N. Y., New York—(Borough of Brooklyn)—Elevated Railway—New York Municipal Railway Corporation awarded contract for steel for additional tracks for Myrtle Ave. elevated railway from Willoughby Ave. to Palmetto St.; also for improvements on Luthern Cemetery line to BAYLY HIPKINS. Noted Oct. 21.

N. Y., New York—(Borough of Brooklyn)—Station—Lowest bids submitted for railroad station from Church Ave. to Malbone St., Brighton Beach Line, for New York Municipal Railway Corporation, 85 Clinton St., were as follows: Flick-Manuell Co., 11 Pine St., $1,039,000; Inter-Continental Construction Co., 215 Rogers Ave., $1,064,832; P. J. Carlin Construction Co., 1123 Broadway, $1,123,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Frogs and Switches—Contract for special work, Order No. 6, for use in construction of Rapid Transit Railroads, frogs and switches for Lexington Ave. line, awarded to RAMAPO IRON WORKS, 35 Church St., at $146,195. Noted Dec. 9.

New York, N. Y.—(Borough of Manhattan)—Subway—Contract for Section No. 2, Route Nos. 19 and 22, part of Southern Blvd. and Westchester branch of Lexington Ave. subway, awarded to FLICK, MANUELL CO., 11 Pine St., at $2,063,877. Noted Dec. 9.

Ill., Chicago—Bathhouse—Contract for two municipal bathhouses awarded to BAKKIN CONSTRUCTION CO. Estimated cost, $26,000.

Ill., Dixon—Service Tunnels—Contract for service tunnels for State Epileptic Colony awarded to HATCH & MONTAGUE, Niles, Mich., at $51,555.

Tex., Galveston—Filling—City awarded contract for seawall improvement filling to STANDARD AMERICAN DREDGING CO. A. T. Dickey, City Engr.

Wash., Seattle—Transit Shed—Seattle Port Commission awarded contract for transit shed No. 2, at East Waterway Terminal Project to MANHATTAN CONSTRUCTION CO., Seattle, at $34,760.

Ore., Portland—Tunnel—Contract for relining tunnel from Mocks Bottom under Columbia Park to Columbia Slough for Oregon-Washington R.R. and Navigation Co. awarded to GUTHRIE-McDOUGALL & CO., Portland. Estimated cost, $400,000. Noted Dec. 16.

Calif., Monrovia—Mausoleum—Contract for 40x80-ft. mausoleum for Monrovia Mausoleum Co., awarded to DAVIDSON CONSTRUCTION CO., Los Angeles, Calif. Estimated cost, $40,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous"

Maine, Islesboro—Plans being prepared by F. L. Savage, Bar Harbor, for hotel to replace Islesboro Inn. Estimated cost, $150,000.

Mass., Boston—(Roxbury)—Plans prepared by A. J. Carpenter, Jr., Arch., for one-story, 42x100-ft. synagogue for Shari Congregation. Estimated cost, $40,000.

Mass., Lynn—(Official)—Bids will be received about Feb. 1 by George A. Cornet, Comr. of Pub. Wks., for school on Conomo Ave. Estimated cost, $100,000. Noted Dec. 2.

R. I., Howard—Bids will be received until Jan. 6 by Board of Control and Supply for two-story, 40x160-ft. ward building for State Hospital for the Insane. Martin & Hall, 806 Union Trust Bldg., Howard, Arch.

R. I., Providence—R. I. Hospital Trust Co. plans to build an addition to bank.

R. I., Providence—Bids will be received by Board of Education until Jan. 15 for school. Estimated cost, $200,000. William R. Walker & Son, Providence, Arch. Noted Nov. 18.

Conn., East Hartford—Bids will be received by Wilson Potter, Arch., Union Sq., New York, N. Y., for high school. Estimated cost, $75,000. Noted Sept. 16.

N. Y., Buffalo—Lafayette Hotel Co. plans to build addition to hotel at Clinton and Washington St. Estimated cost, $48,000.

N. Y., Gloversville—(Official)—Bids will be received by City National Bank until Dec. 28 for one-story bank building. Estimated cost, $80,000. Noted Dec. 16.

N. Y., New York—(Borough of Brooklyn)—Trustees of Polytechnic Institute contemplate new buildings on Dyker Meadows site. Estimated cost, $600,000.

N. Y., Port Washington—Election will be held Jan. 7 to vote on $100,000 bonds for addition to high school. J. Hutchinson, Clk., Bd. of Education.

N. Y., Rifton—Plans prepared for three-story addition to hotel for H. Holding Realty Co. Girard L. Betz, 51 John St., Kingston, Arch.

N. Y., Rochester—Clinton-Mortimer Corporation will build motion-picture theater.

N. Y., Watertown—Plans will be prepared by C. M. Curtiss, Arch., Vinney Bldg., Syracuse, for remodeling Franklin Arcade Building into theater. Estimated cost, $50,000.

N. J., Atlantic City—Preliminary plans being prepared by Hoffman Co., Arch., Finance Bldg., Philadelphia, Penn., for ten-story hotel. Estimated cost, $600,000.

N. J., Atlantic City—Plans being prepared by Sewart G. Dobbins, Arch., 1318 Atlantic Ave., Atlantic City, for three-story, 350x670-ft. convention hall for Convention Hall Co. Estimated cost, $500,000.

N. J., Camden—Trustees of Public Library plans library in Cooper Sq. Estimated cost, $130,000.

N. J., Collingswood—C. S. Adams, Arch., 1509 Arch St., Philadelphia, Penn., preparing plans for three-story hospital and sanitorium. Estimated cost, $125,000.

N. J., Newark—Preliminary plans prepared for building on West St. for Foresters of America. Estimated cost, $80,000. Philip J. Schotland, Chn., Bldg. Com.

Penn., Carbondale—Owen McGlynn, Arch., Carbondale, will prepare plans for new high school. Estimated cost, $150,000. Noted Sept. 9 and 16.

Penn., Delaware Water Gap—Plans being prepared for rebuilding hotel for J. Purdy Cope, Atlantic City, N. J. Estimated cost, $50,000. S. Hudson Vaughn, Guarantee Trust Bldg., Atlantic City, N. J., Arch.

Penn., Eddystone—Plans will be prepared by G. H. Nattress & Son, Arch., 1129 Walnut St., Philadelphia, for three-story building for St. Lukes Protestant Episcopal Church.

Penn., Lancaster—Lancaster Theological Seminary will build dormitory. Estimated cost, $60,000.

Penn., Philadelphia—Bids will soon be received for four-story, 43x200-ft. store building for Blauners, Inc., 833 Market St. Estimated cost, $100,000. Hoffman Co., Finance Bldg., Philadelphia, Arch.

Penn., Pittsburgh—See item under "Sewers."

Penn., West Chester—Bids will soon be received for church for Methodist Episcopal Congregation. Wesley L. Blitho, 608 Chestnut St., Philadelphia, Arch.

Penn., Williamsport—Bids will be received about Jan. 10 by West Branch National Bank for one-story building. Estimated cost, $150,000. Mowbray & Uffinger, 56 Liberty St., New York, N. Y., Arch. Noted Nov. 18.

Md., Blue Mountain—J. Castelbery, 322 West Baltimore St., Baltimore, and C. S. Gardner, Blue Ridge Summit, Penn., interested in erection of hotel at Blue Mountain. Estimated cost, $300,000.

D. C., Washington—Plans being prepared by Snowden & Ashford, Municipal Arch., Municipal Bldg., for hospital at 14th and Upshur St. Estimated cost, $500,000.

D. C., Washington—Bids will soon be received by Reginald W. Geare, Arch., 327 Woodward Bldg., for three-story, 137x157-ft. theater for George T. Smallwood and I. Cassidy, 3520 16th St. Estimated cost, $80,000. Noted Dec. 2.

Va., Newport News—Plans being operated by B. F. Mitchell, Norfolk, for three-story, 54x126-ft. reinforced-concrete office building for Chesapeake & Ohio Railway. Estimated cost, $65,000.

W. Va., Charleston—Rev. P. J. Donohue, Bishop of Catholic Diocese of West Virginia, interested in construction of hospital. Estimated cost, $60,000.

W. Va., Fairmont—George T. Watson and associates will build hotel. Estimated cost, $300,000.

W. Va., Welch—McDowell Lodge No. 112, A. F. & A. M., will build four-story store, office and lodge building. Peltze & Garry, Bluefield, Arch.

N. C., Biltmore—Biltmore School District plans to build high school.

S. C., Columbia—Union Station Co. will improve passenger station. Estimated cost from $50,000 to $100,000. J. W. Wassum, Columbia, Secy.

Ga., Atlanta—Negro Y. M. C. A. will erect building. Estimated cost, $50,000.

Fla., Clearwater—Election will be held Feb. 3 to vote on $130,000 bonds for courthouse and jail for Pinellas County. Noted Dec. 2.

Fla., Miami—Y. M. C. A. will erect 90x140-ft. building. Estimated cost, $100,000. William S. Frost, Secy.

Miss., Columbus—Election will be held Feb. 1 to vote on $50,000 bonds for high school. Noted Nov. 18.

Ky., Louisville—Plans being prepared for building for Kentucky Athletic Club. Estimated cost, $100,000.

Ohio, Alliance—Plans being prepared by W. T. Miller Co., Arch., Columbus, for school.

Ohio, Bryan—Board of Education contemplates new school. Estimated cost, $40,000.

Ohio, Bucyrus—Charles J. Scriggs is organizing a company to build Masonic Temple. Estimated cost, $40,000.

Ohio, Bucyrus—Election will be held Jan. 14 to vote on $40,000 bonds for school for Tiro Consolidated School District. W. W. Davis, Secy. Bd. of Education.

Ohio, Cincinnati—Bids will soon be received for Catholic University on Dana Ave. Estimated cost, $75,000.

Ohio, Cleveland—(Official)—Bids will be received about Mar. 15 for additions to Memorial, East Clark and Tremont Schools. Estimated cost, $150,000. W. R. McCormack, Arch. Noted Dec. 16.

Ohio, Cleveland—Board of Education contemplates building two grade schools. Estimated cost, $200,000. S. E. Hyre, Clk. Bd. of Education.

Ohio, Cleveland—Plans being prepared for three and five-story, 87x114-ft. Masonic Temple for Newburgh Masonic Temple Co. Estimated cost, $65,000. W. J. Carter, 1423 Illuminating Bldg., Cleveland, Arch.

Ohio, Cleveland—Plans being prepared by Ferguson-Flanigan Co., Arch., Vickers Bldg., Cleveland, for eight-story building at St. Clair Ave. and East Third St. for Walton Realty Co.

Ohio, Columbus—Plans being prepared by Werner & Atkins, Cincinnati, for jail for Clinton County. Estimated cost, $350,000.

Ohio, Columbus—Plans being prepared by Richards, McCarty & Bulford, Arch., Hartman Bldg., Columbus, for four-story building at 31 North Fourth St., for H. C. Godman Shoe Co.

Ohio, Dennison—According to press reports plans are being considered for enlarging University of Dennison. C. W. Chamberlain, interested.

Ohio, Kent—Kent State Normal School will build dormitory at Kent. Estimated cost, $120,000.

Ohio, Tiffin—Plans prepared for dormitory for National Orphans Home.

Ohio, Tiro—Election will be held Jan. 24 to vote on $40,000 bonds for consolidated school.

Ohio, Toledo—Bids will be received by Clerk of Board of Education until noon, Jan. 10, for alterations and additions to Ironville School at Millard and Tiffin Ave.

Ohio, Toledo—Keith Co. will build theater in Toledo.

Ohio, Toledo—Edward D. Libbey and E. H. Close contemplate erecting building at Admane and Huron St. Estimated cost, $1,000,000.

Ohio, Waterville—Board of Education plans to build new high school.

Ohio, Wellsville—First Presbyterian Congregation will build church. Estimated cost, $68,000.

Ohio, Youngstown—Board of Education plans to build Pine Hollow grade school. Estimated cost, $73,000.

Ind., Clinton—County plans to build new hospital. Estimated cost, $50,000. S. N. Sellers, Chn. of Bldg. Com.

Ind., Ft. Wayne—Members of Christs Lutheran Church will build edifice next spring. Estimated cost, $50,000.

Ind., Peru—(Official)—Bids will be received in the spring for two-story city hall. Estimated cost, $125,000. Noted Nov. 18.

Ind., Vincennes—Tentative plans prepared by J. W. Gaedis, Arch., for school. Estimated cost, $138,000. J. W. McCoy, Secy. of School Bd.

Mich., Detroit—Congregation of North Woodward Ave. Methodist Church plans to build new edifice. Estimated cost, $200,000. Fred L. Cook, Pres. of Bd. of Trustees.

Mich., Grand Rapids—Press reports state that seven-story hotel will be built at Sheldon Ave. and Oakes St. A. Brown, 501 Paris Ave., S. E., interested.

Mich., Grand Rapids—Plans being prepared by J. & G. Daverman, Arch., for hospital at Bristol Ave. and Fourth St. for Christian Psycopathic Hospital.

Ill., Freeport—Plans prepared for eight-story hotel for Freeport Hotel Co. Estimated cost, $500,000.

Ill., Woodriver—Board of Education plans to build school. Estimated cost, $50,000.

Wis., Appleton—Plans prepared for girl's dormitory at Lawrence College. Estimated cost, $70,000.

Wis., Eau Claire—Citizens voted $85,000 bonds for municipal auditorium. Noted Dec. 2.

Wis., Madison—E. C. Bracken, 753 East Johnson St., plans to build theater and office building. Estimated cost, $90,000.

Wis., Racine—Manufacturers' National Bank of Racine plans to build bank and office building during 1916. Estimated cost, $150,000.

Iowa, Cedar Rapids—Citizens contemplate coliseum. Estimated cost, $125,000.

Iowa, Des Moines—Board of Education contemplates high school on Park Ave. J. W. Studebaker, Supt.

Idaho, Idaho Falls—Commissioners of Bonneville County contemplate court house. Estimated cost, $60,000.

Iowa, Muscatine—First Baptist Congregation will build church at Muscatine. Estimated cost, $75,000.

Iowa, Sioux City—(Official)—Bids will be received until Feb. 7 by H. Metz, Chn. Bd. of Superv., for three-story, 150x150-ft. courthouse. Estimated cost, $500,000. Noted Dec. 9.

Neb., North Platte—Plans being prepared by Bert M. Reynolds, Arch., for high school. Estimated cost, $50,000.

N. D., Bowbells—Citizens defeated $75,000 bonds for Burke County courthouse.

Mont., Havre—Great Northern Railway Co. will build three-story freight and office building on Main St.

Tex., Abilene—Texas & Pacific R.R. plans to build passenger and freight depot, including warehouse, at Abilene. Estimated cost, $50,000.

Tex., Corpus Christi—City contemplates holding election to vote on $100,000 bonds for auditorium.

Tex., Dallas—Dallas Terminal Association contemplates interurban terminal depot. Estimated cost, $1,500,000. C. F. Wallace, Dallas, interested.

Tex., El Paso—Gustav Zork plans to build six-story store and office building at Texas and Kansas St. Estimated cost, $80,000.

Tex., Galveston—Plans being prepared for addition to Y. M. C. A. Estimated cost, $50,000.

Tex., Port Arthur—Election will be held Jan. 8 to vote on $450,000 bonds for schools for Port Arthur Independent School District. Noted Dec. 16.

Tex., Waco—Missouri, Kansas & Texas Railway will build three-story freight depot and improve passenger station. Estimated cost from $180,000 to $200,000.

Tex., Waco—B. L. Scott contemplates erecting three-story building at Eighth and Washington St.

Tex., Wichita Falls—(Official)—Bids will be received until Jan. 5 by Field & Clarkson, Arch., for three-story, 50x150-ft. building for A. F. & A. M. Estimated cost, $50,000. Noted Dec. 9 and 16.

Okla., Bartlesville—Board of Education plans to build junior high school. Estimated cost, $75,000.

Okla., Bartlesville—Revised plans being prepared by Shattuck & Hussey, Arch., 19 South La Salle St., Chicago, Ill., for Y. M. C. A. building.

Okla., Tulsa—McMan Oil Co. will build ten-story office building at Fourth and Boston St. Estimated cost, $300,000.

Okla., Tulsa—F. M. McFarlin purchased site at Tulsa and will build 100x140-ft. building at Fourth St. and Boston Ave. Estimated cost, $200,000.

Okla., Tulsa—Press reports state plans being prepared for 10-story addition to Hotel Tulsa. W. N. Robinson, Mgr.

Colorado, Durango—Election will be held Jan. 12 to vote on $175,000 bonds for high school.

Colo., Trinidad—Bids will be received until Jan. 4 by Commissioners of Las Animas County for jail. Estimated cost, $80,000.

N. M., Silver City—Plans being prepared for hotel by Silver City Chamber of Commerce. Estimated cost, $100,000. Carl Hinton, Secy.

Idaho, Pocatello—H. F. Dunn, Payette, is interested in a project to build a three-story hotel. Estimated cost, $50,000.

Wash., Seattle—(Official)—Bids will be received about Feb. 10 by Board of Regents of University of Washington for recitation building. Estimated cost, $150,000. Noted Dec. 9.

Wash., Seattle—Edgar Blair, Arch., 1426 Jackson St., preparing plans for improving schools during 1916. Bonds for $750,000 recently voted for this purpose.

Ore., Springfield—District No. 19 contemplates building high school. A. P. McKinsey, Clk.

Calif., Red Bluff—Plans being prepared by W. H. Weeks, Arch., 75 Post St., San Francisco, Calif., for high school annex. Estimated cost, $90,000.

Ont., Ottawa—City contemplates police station. Estimated cost, $100,000.

Bids In and Contracts Awarded

N. H., Hampton Beach—Contract for two-story, 50x132-ft. theater awarded to HARRY A. KIRK. J. A. Hallaron, Arch., 164 Federal Bldg., Boston.

Mass., Boston—P. H. Rose Construction Co., 730 Wash St., Boston, at $159,735, submitted lowest bid for Sarah Greenwood School. Noted Dec. 2.

Mass., North Adams—Contract for high school awarded to H. C. WOOD & CO., North Adams, at $144,860. Noted Dec. 16.

Mass., Waltham—Contract for one-story, 62x184-ft. church for St. Charles Congregation awarded to MICHAEL LALLY, 20 Calvary St., Waltham. Estimated cost, $80,000. Noted Nov. 11.

Mass., Watertown—Contract awarded to J. J. FLYNN, 319 Washington St., Boston, for three-story, 44x60-ft. addition to convent of St. Patrick's Church. Estimated cost, $60,000.

Conn., Waterbury—Contract awarded to THOMAS G. SMITH, Waterbury, for two-story school. Estimated cost, $44,918.

Penn., Philadelphia—Melody & Keating, Bailey Bldg., at $291,689, submitted lowest bid for four-story school at B St. and Westmoreland Ave. for Board of Education. Noted Dec. 9.

Penn., Philadelphia—W. Beaumont, Stephen Girard Bldg., Philadelphia, at $58,147, submitted lowest bid for three-story addition to Harriet Beecher Stowe School at 70th St. and Woodland Ave. Noted Dec. 2.

Va., Roanoke—Contract for addition to Hotel Roanoke awarded to JOHN R. PETTYJOHN & CO., Roanoke. Estimated cost, $100,000. Noted Dec. 2.

Ga., Athens—Southern Ferro-Concrete Co., Atlanta, at $100,000, submitted lowest bid for Y. M. C. A. building. W. T. Forbes, Secy. Bldg. Com. Noted Nov. 11.

Ga., Savannah—W. H. FISSELL & CO., New York, N. Y., awarded contract by National Bank of Commerce to remodel building. Estimated cost, $40,000.

Fla., Live Oak—(Official)—Contract for school for Suwannee County Board of Education awarded to FLORIDA ENGINEERING AND CONSTRUCTION CO., 403 Main St., Jacksonville, at about $45,000. Noted Nov. 18.

Ala., Birmingham—Contract for five-story store building for Louis Sax Clothing Co. awarded to SMALLMAN-BRICE CO., Birmingham. Estimated cost between $100,000 and $150,000. Noted Nov. 25.

Miss., Pontotoc—Contract awarded to DOBSON & OLIVE, Montgomery, Ala., at $56,884, for courthouse for Pontotoc County. Noted Dec. 2.

Tenn., Cookeville—All bids received for two buildings for Tennessee Polytechnic Institute rejected. Revised plans will be prepared by Asmus & Norton, Arch., Nashville. Estimated cost, $145,000. Noted Dec. 9.

Ohio, Akron—Contract for school awarded to NATIONAL CONCRETE FIREPROOFING CO., 1315 Citizens Bldg., Cleveland, at $84,000.

Mich., St. Joseph—F. H. Beauman Co., Chicago, Ill., at $75,977, submitted lowest bid for high school. Noted Sept. 2.

Iowa, Centerville—Contract for three-story hospital for Sisters of Mercy awarded to J. C. MARDIS CO., Des Moines. Estimated cost, $75,000. Noted Dec. 2.

Kan., Emporia—(Official)—Contract for four-story administration building for state awarded to HEMAN CONTRACTING CO., St. Louis, Mo., at $191,881. Charles H. Chandler, State Arch. Noted Nov. 18.

Neb., Lincoln—Contract for hospital and chemistry building for University of Nebraska awarded to E. P. GOULD & SON, Omaha, at $105,745. Noted Dec. 2.

Mo., St. Louis—Jewish Shelter Home for Boys and Girls awarded contract for building to JAMES BLACK MASONRY AND CONSTRUCTION CO., St. Louis.

Tex., El Paso—Contract for four-story hospital at Montana and Piedras St. for Rolston Hospital awarded to JOLLY & MORRIS, El Paso. Estimated cost, $40,000.

Calif., Los Angeles—Pacific Mutual Co. awarded contract for office building at Sixth and Olive St. to C. J. KUBACH CO., Merchants Bank Bldg., Los Angeles.

Calif., San Francisco—Contract for steel work on two wings of San Francisco Hospital awarded to DYER BROS., 17th and Kansas St., San Francisco, at $101,425.

A Partnership has just been formed under the name of Demorest & Hieber, in the Dollar Savings and Trust Bldg., Pittsburgh, Penn., as structural steel engineers. Originally Mr. Demorest and Mr. Heiber were associated but decided that it would be better for their interests to form a partnership.

The Chicago Bridge and Iron Works has moved its general sales office from Washington Heights to the Old Colony Bldg., 37 West Van Buren St., Chicago, Ill., and has combined with it the city sales office formerly at 332 South Michigan Ave.

The Government of the Philippine Islands completed arrangements yesterday for the purchase of the stock of the Manila R.R. the securities of which are now held for the most part by a syndicate headed by James Speyer, of New York. Governor-General Harrison will submit the plan to the Legislature after the holidays.

New Way to Produce Iron—An entirely new method of producing pure iron, which it is believed will save the electrical industries of the country more than $15,000,000 a year, has been discovered by Dr. Trygve Yensen, an assistant in the engineering experiment station of the University of Illinois, it was announced at the university today.

The method used by Dr. Yensen consists of melting electrolytically refined iron in a vacuum, reducing the impurities thus far below any point which had been reached by previous investigators. The magnetic property of this vacuum-fused iron has proved to be as remarkable as its purity. Its maximum permeability, i.e., measure of ease with which it can be magnetized, was found to be about 20,000, which is two or three times higher than for the best magnetic iron or iron allow previously produced.

A practical result of this investigation is that, if it should turn out to be commercially profitable, the amount of material needed for electrical machinery such as transformers, could be cut in two and the losses which occur continuously as long as the machine is in operation would be greatly minimized. The annual saving to the electrical industries of the country by application of this discovery will amount to between $15,000,000 and $20,000,000, if it should turn out that the iron can be produced at the same expense as the iron at present used.

Contracts to Be Let

Bids received until Jan. 4, 1916.

Barge Canal Work

STATE OF NEW YORK,
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS.

Albany, December 6th, 1915.

Sealed proposals will be received by the undersigned at his office in the Capitol, at Albany, N. Y., until twelve o'clock noon of Tuesday, January 4th, 1916, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147, Laws of 1903, and of the amendments thereto, as follows:

CONTRACT NO. 73-A (Revised).
Champlain Canal—Section 1.

For completing the construction of the canal from Northumberland to Stillwater.

Length about 15.0 miles. Sheets 1 to 16 inclusive.

Plans may be seen and detailed specifications, engineer's estimate of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the City of Albany or New York, issued by a national or State bank in good credit within the State and payable at sight to the Superintendent of Public Works for five per centum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of bond required for faithful performance will be ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent.) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, coinsurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the State will be enhanced thereby.

W. W. WOTHERSPOON,
Superintendent of Public Works.

Bids received until Jan. 17, 1916.

Steam Pumping Unit

St. Paul, Minn., Dec. 18, 1915.

Notice is hereby given that sealed proposals, bearing the number 667 of the bid and endorsed with the name of the bidder and the date of presentation will be received at the office of the Purchasing Agent at the Court House and City Hall until 10:30 a.m., Jan. 17, 1916, for the designing, construction, delivery and erection complete of a steam pumping unit, of a capacity to pump continuously fifteen (15) million U. S. gallons of water per twenty-four (24) hours, against a total combined head of one hundred and seventy-one (171) feet, with steam pressure of one hundred and fifty (150) pounds per square inch at throttle; together with all auxiliary equipment, tools and appurtenances necessary; all in accordance with the plans and specifications on file in the office of the Purchasing Agent.

Bids are invited on two types of pumping units, namely: (a) The centrifugal type of pump driven by a steam turbine through reduction gears, and (b) the triplex plunger type of pump driven by a vertical triple expansion type of steam engine. The type and make of pumping unit that will be purchased will be that showing the lowest operating cost per year to be determined on a basis given in the specifications plus fixed charges on the total investment.

A bond in the sum of 20 per cent. of the amount bid, with two sureties, residents of the City of Saint Paul, or a Surety Company bond in the same amount, or a certified check for 10% of the amount bid, must accompany each proposal as surety for the making and execution of a contract.

The City reserves the right to reject any or all bids, or any part thereof.

Bids are to be submitted in duplicate upon the regular proposal blank, furnished by the Purchasing Agent on request, and are subject to the conditions stated thereon. All bids will be opened in public, at the time above stated, by the Purchasing Agent, in the presence of the Purchasing Committee.

AUGUST HOHENSTEIN,
Purchasing Agent.

Bids received until Jan. 12, 1916.

Turbo-Centrifugal Pump

Kansas City, Mo.

SEALED PROPOSALS will be received by the Purchasing Agent of Kansas City, Missouri, at the office of the Purchasing Agent, Second Floor City Hall, until two o'clock p.m. of January 12, 1916, for the designing, construction, delivery and erection of a steam turbine, reduction gear, centrifugal pumping unit of a capacity to pump continuously twenty (20) million U. S. gallons of water per twenty-four (24) hours, against a total combined head of three hundred and sixty (360) feet and a steam pressure of one hundred and sixty-five (165) pounds per square inch at throttle; together with all machinery, tools and appurtenances necessary; all in accordance with the plans and general specifications on file in the office of the Chief Engineer of the Water Department.

Each bidder shall deposit with the City Comptroller a certified check in the amount of Seven Hundred and Fifty Dollars ($750.00), payable to the City Comptroller of Kansas City, Missouri, and accompany his bid with the Comptroller's receipt therefor.

The certified check referred to in the Advertisement shall be submitted by each bidder as a guaranty that the bidder will, within ten (10) days after receiving the award of a contract, file with the City a satisfactory bond to the amount of Twenty-five Thousand Dollars ($25,000.00) and will execute the contract.

The Board of Fire and Water Commissioners does not bind itself to accept the lowest or any bid offered, and reserves the right to reject any and all bids and to waive any irregularity or informality in the bids.

(Signed) J. P. LANGAN, Purchasing Agent.
BURTON LOWTHER, Chief Engineer.